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1929

1929--THE INLAND SEED CO.--1929

The year 1928 has now passed into history, and 1929 has been given a rousing welcome. It is our earnest hope that this year will be brimful of happiness, peace and prosperity to all who receive this catalog and to the exceeding vast multitude who do not receive it. Mankind is very closely linked together, so that it is impossible for any one to live solely for himself.

Being engaged in the growing and distribution of seeds, we realize that ours is no mean task, but that we are occupying a very responsible position as so many planters and individuals look to us to supply them with seeds of such quality, that under proper conditions will produce satisfactory results.

Two lots of seeds may be so nearly alike that even an expert would be unable to discern any difference, and yet when put to the true test, namely planting and production, the difference becomes very apparent, and is easily recognized.

As the eye is not an infallible guide in a great many cases, as to the true worth of seeds, it becomes more and more important for the seedsman to be at all times on the alert as to the real worth of the seeds he is producing and distributing.

We draw your attention to the fact that we have not given any of our seeds any high sounding names, neither have we been guilty of giving old varieties new names, and selling same at fancy prices.

At all times we have persistently and conscientiously supplied our customers with the best seeds that could be procured and the loyalty of those who have been trading with us for years is not only ample proof, but proof of the very best kind, that our seeds have been fully equal to the claim we have always made, that while equally as good seeds may be secured there cannot be any better seeds secured from any source at any price.

In our business career there have always been certain principles that have guided our actions and conduct, and these have been highest quality, honesty, and prices consistent with quality and service.

Owing to soil and climatic conditions, condition of soil when seeds are planted, manner and time of planting, too much or too little moisture, time and care in cultivating, etc., it is impossible for us to guarantee results on any seeds, bulbs, plants or nursery stock we send out, and we will not in any way be responsible for the crop.

THE INLAND SEED CO.

120-122 S. Howard St., Spokane, Wash.

FREE INFORMATION BUREAU

We are glad to record that our customers have used this freely, and we wish to state that it has been a source of great pleasure and profit to ourselves, as frequently we have been obliged to investigate before answering, and this fact accounts for the delay of a few days in answering some inquiries. This has been established for the use of our customers and the more it is used the better we are pleased. It is entirely free.

WHEN YOU ORDER

Write name and address plainly.
Give postoffice and shipping point.

Include prepay charges if necessary.

Figure postage correctly.

All orders strictly cash.

Plants not sent C. O. D.

INSURANCE

Up to \$5.00.....	3c
From \$5.00 to \$25.00.....	5c
From \$25.00 to \$50.00.....	10c
From \$50.00 to \$100.00.....	25c

If you want your order insured add at above rates to your remittance. We are not responsible for goods after being delivered to P. O. or general carrier.

The Inland Seed Company's 1929 Seed Catalogue 1929

Seeds

Native Vegetables Are Most Important

In the American vegetable garden eight principal food products had their origin in the Indian crops existing here before the advent of the white man. These include beans, corn, peppers, pumpkins, squash, tomato, potato and sweet potato. Vegetables of Old World origin are far more numerous. The United States Department of Agriculture lists 24 of importance, cucumbers, eggplant, muskmelon, watermelon, okra, asparagus, beets, Brussels sprouts, cabbage, carrots, cauliflower, celery, kale and collard, kohlrabi, leek, lettuce, onion, parsley, parsnip, peas, radish, salsify, spinach, and turnip. But the value of the crop of the eight native vegetables is considerably greater than the 24 of foreign origin.

ARTICHOKE TUBERS

Planted and cultivated the same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, and great productiveness. One lb., postpaid, 20c; at purchaser's expense, 50 lbs., \$2.00; 100 lbs., \$3.50.

ASPARAGUS



CULTURE — Sow in early spring in rows; when one year old the roots may be taken up and transplanted in permanent beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with six inches of well rotted stable manure, then six inches of soil somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about four inches below the surface.

PALMETTO — This variety is very desirable on account of its earliness, bright green color, presenting an attractive appearance, excellent flavor and productiveness. Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 75c; 1 lb., \$1.25.

WASHINGTON — This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich, dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor.

Pkt., 15c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.75.

Beans

All Our Beans Are Hand Picked.

It is a fact worth emphasizing that in order to secure the best results from seeds that the seeds themselves should be fully matured, well developed, of good germination, and capable of strong, vigorous growth. In order to secure these very essential and necessary qualities, we are having our wax and green podded bush varieties grown in Washington and Idaho. In localities especially suited to their growth and culture.

CULTURE — Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, in rows 18 inches apart. For field culture, make the rows 3 or 3½ feet apart, and cover with two inches mellow soil.

Bush, Wax Podded

BLACK WAX, PROLIFIC — This improved strain of Black Wax we offer under this name is exceptionally productive, very hardy, reliable and of the best quality. The pods are of medium length four and one-fourth to four and one-half inches, borne well up from the ground, curved cylindrical and fleshy. They are of a clear, light golden yellow color and remain a long time in condition for use as snaps. Seed small, oblong, jet black.

GOLDEN WAX IMPROVED — This is one of the earliest and best dwarf sorts for the home market and private gardens. The plants are erect, compact, and very productive. The pods are of medium length, four and one-half to five inches, nearly straight, broad, flat, golden yellow, very fleshy and waxlike. Seed medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color on this and all partially colored beans will be affected greatly by conditions of soil and ripening.

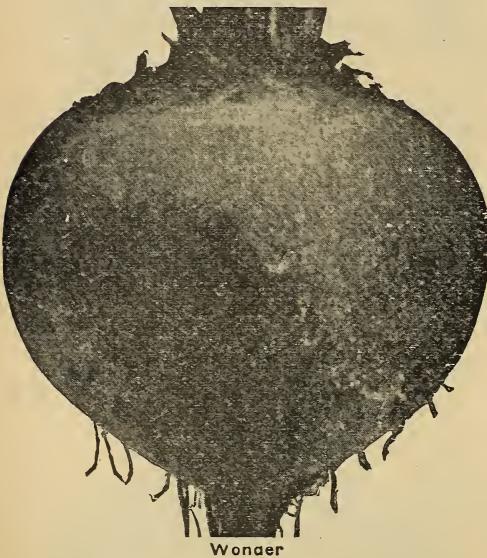
WARDWELL'S KIDNEY WAX — This standard variety matures a little later than Golden Wax, yields a large crop of long, nearly straight, broad, light golden yellow, handsome pods. These are of large size, about six inches long, and are of good quality. The plants are strong growing and bear their long pods well up from the ground. Seed large, flattened, kidney shaped, white, with dark markings about the eye.

All Wax Beans, 1b., 40c; 5 lbs., \$1.90; 10 lbs., \$3.50. At purchaser's expense, 1b., 35c; 5 lbs., \$1.75; 10 lbs., \$3.25; 25 lbs., \$7.50; 50 lbs., \$13.50; 100 lbs., \$25.00.

of dark blood red color. The flesh is deep vermillion red, zoned with a lighter shade of the same color. The variety is very desirable for bunching. Dark Red is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality.

EGYPTIAN, CROSBY'S—One of the earliest and best strains of Beets. The roots run uniform in size and shape, have small tops, just right for early bunching. The flesh is deep red, sweet, tender, and of excellent quality. It develops its fine turnip shape in the early stages of its growth and on that account is preferred to most other kinds, which take a much longer time to grow to a proper maturity.

HALF LONG BLOOD—An old and popular variety, especially desirable for fall and winter use, as it does not become woody, and keeps better than the turnip shaped varieties. The root is smooth and handsome and the flesh is a bright red and of good quality.



WONDER—The earliest of any Beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling purposes. In flavor it can not be beat. It is tender, sweet and juicy, retaining its crispness throughout the season. The foliage is of a very dark color, is very small, permitting close planting.

All the different varieties of beets, unless otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 35c; 1/2 lb., 55c; 1 lb., 90c; postpaid; at purchaser's expense: 1 lb., 85c; 5 lbs., \$3.75; 10 lbs., \$6.50.

SWISS CHARD OR SEA KALE—This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 35c; 1/2 lb., 55c; 1 lb., \$1.00.



Swiss Chard

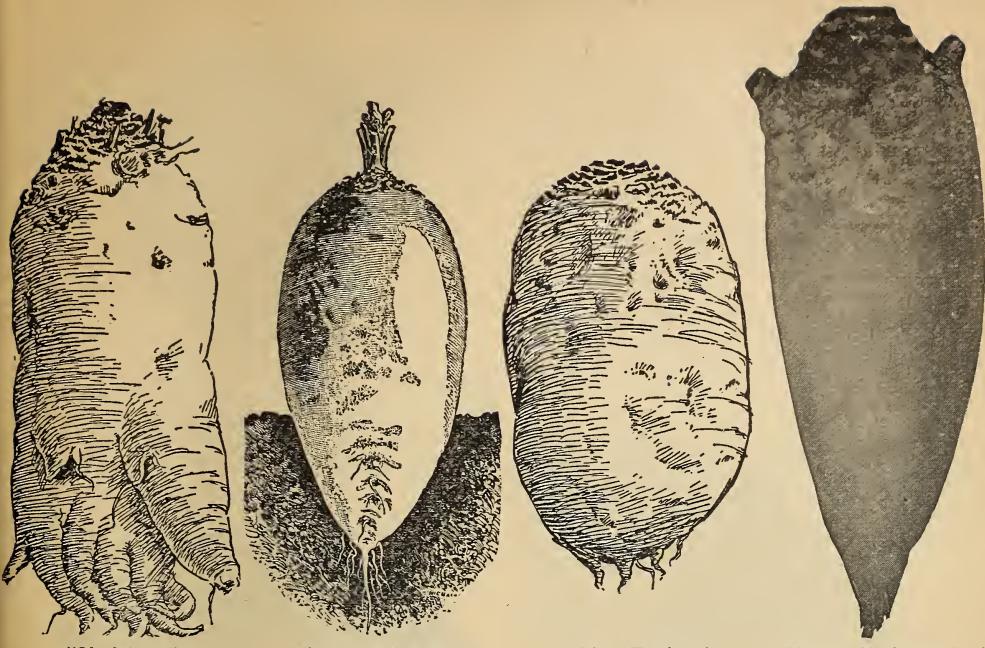
Mangel Wurtzels

The great importance of growing Mangel Wurtzel and Sugar Beets for stock is becoming more and more apparent to the progressive farmer, on account of their immense yield, and their fine feeding qualities. In order to secure seed from the very best types we are contracting with European and American growers that are looked upon by their competitors as real experts. This seed costs us more than seed from the ordinary strains grown by ordinary growers, but we have always believed that quality is of more importance than price, and judging from the increase in our sales each year, we are convinced that the farmers are recognizing and appreciating the high quality of our seeds.

DANISH SLUDSTRUP—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all mangels, having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutrient found in any sort. It is very hardy, grows well above ground and is easily pulled.

GIANT HALF SUGAR—Is very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best mangels, and twice as much per acre as the rich sugar beet seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, oval in form, very smooth, with few rootlets; tops small, flesh white.

GOLDEN TANKARD (Improved)—A special feature is the rich, deep yellow color of the flesh, differing in this respect from other Mangels, surpassing them in milk-producing qualities. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields



"Sludstrup"

Giant Half Sugar

Golden Tankard

Mammoth Long Red

an enormous bulk on good land, and can be grown closely in rows.

KLEIN WANZLEBEN — This variety has proved to be a very valuable sort, on account of its richness in saccharine matter thus demonstrating its superiority for feeding purposes. Roots rather long, slender growing into the ground. A great yielder.

MAMMOTH LONG RED — This is the heaviest cropping and largest of all mangels. The roots grow from one-half to two-thirds above the surface and are frequently two or more feet in length by six inches in diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose-pink.

All varieties of Mangel Wurtzel and Sugar Beets: Oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; $\frac{1}{2}$ lb., 35c; lb., 60c; postpaid; at purchaser's expense: 5 lbs., \$2.50; 10 lbs., \$4.50.

Brussels Sprouts

Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 35c; 2 oz., 60c; $\frac{1}{4}$ lb., \$1.00.

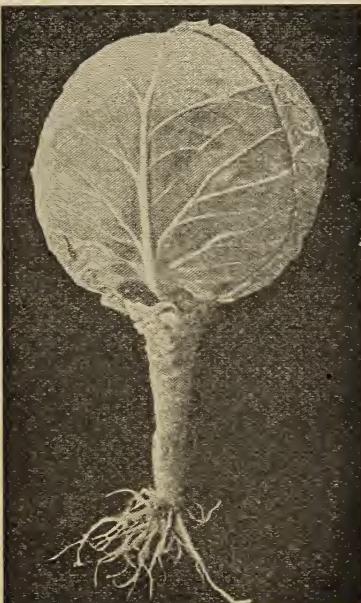
Cabbage

Cabbage is recognized as a crop that usually can be depended upon for good returns. The cost of seed per acre is very small, but the quality of seed you obtain is all important. Do not sacrifice quality. Obtain the best. Our seed is secured from the most reliable growers, gives best results, and better satisfaction than the ordinary strain of cabbage.

CULTURE — For early cabbages sow the seed in a hot-bed in March or April, covering the seed from $\frac{1}{4}$ to $\frac{1}{2}$ an inch deep and, when big enough, transplant to another bed. As soon as the ground is in good condition transplant, out-

side, in rows 2 feet apart and 15 to 20 inches in the row.

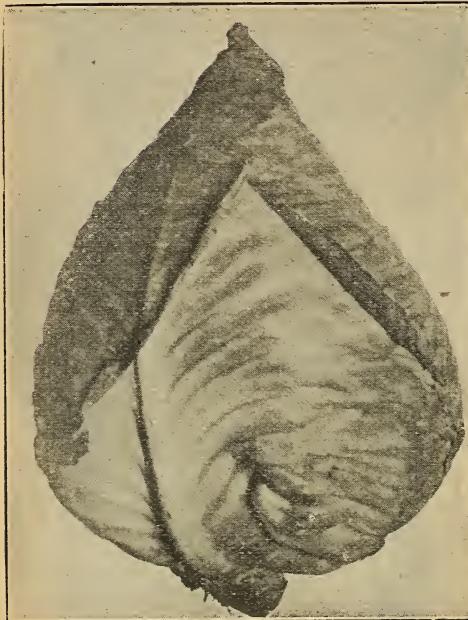
First Early



Copenhagen Market

CLOVER LEAF COPENHAGEN MARKET — This superb new cabbage is undoubtedly without a rival as the finest large round-headed

early cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time (this being a great consideration to market gardeners, entailing less labor in harvesting the crop, and allowing the ground to be cleared at the first cutting.) The heads average about 10 pounds each in weight, are very solid, with small core and of fine quality. It matures a little later than the Early Jersey Wakefield, and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small, saucer-shaped, and always tightly folded. The plants, therefore, can be set closer than is usual with varieties of similar size. Pkt., 5c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 85c; $\frac{1}{2}$ lb., \$1.50; lb., \$2.50.

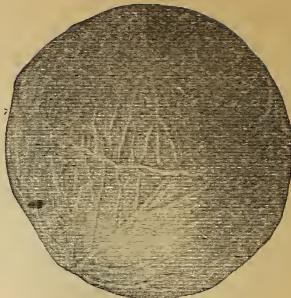


Early Jersey Wakefield

EARLY JERSEY WAKEFIELD—The earliest and hardest heading of extra early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit make it the best sort for very early setting. Pkt., 5c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 75c; $\frac{1}{2}$ lb., \$1.25; lb., \$2.25.

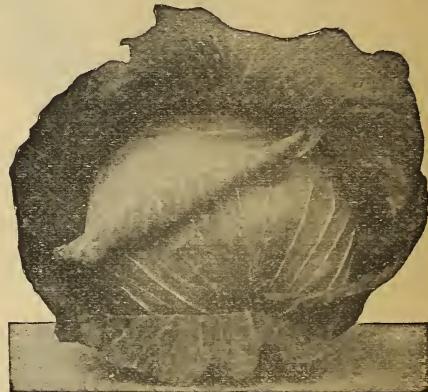
Late

CLOVER LEAF HOLLAND OR DANISH BALL HEAD—Short stemmed. Most remarkable late cabbage yet produced. This is one of the hardest cabbages in cultivation, and endures both frost and drought that would destroy other varieties. The plants are hardy



Danish Ball Head

and compact; leaves very smooth, but thick; heads of medium size, round and very solid, being the hardiest heading cabbage and of the very best quality. Matures quite late, keeps well and is considered by many the best cabbage to keep until spring. Pkt., 5c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 85c; $\frac{1}{2}$ lb., \$1.50; lb., \$2.50.



Flat Dutch

DUTCH, LATE, FLAT—A low-growing variety; heads large, bluish green, round, solid, broad and flat on top; an excellent fall and winter variety; a good keeper, and a sure header. Pkt., 5c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 75c; $\frac{1}{2}$ lb., \$1.25; lb., \$2.25.

DRUMHEAD SAVOY—The best variety of Savoy or crumpled leaf cabbage. The leaf is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid.

ROCK RED—Best red sort, much used for pickling.

SAVOY AND ROCK RED. Pkt., 5c; oz., 35c; 2 oz., 60c; $\frac{1}{4}$ lb., \$1.00; $\frac{1}{2}$ lb., \$1.75; 1 lb., \$3.25.

New Golden Acre

GOLDEN ACRES—This is of recent introduction but has been tested sufficiently so that its real worth has been fully demonstrated. It is similar to the Copenhagen Market, but is a week or ten days earlier, and smaller, in fact ideal in size for marketing. The heads are very uniform, round, firm and of superior quality. It matures nearly all at the same time which is of great advantage to the market gardener. On account of its hardness it will stand in the field a long while before bursting and is a most excellent shipper. Pkt., 10c; oz., 60c; 2 oz., \$1.00; $\frac{1}{4}$ lb., \$1.50; $\frac{1}{2}$ lb., \$2.75; lb., \$5.00.

Chinese or Celery Cabbage

The most essential requirement for successfully raising Chinese cabbage is cool weather. Where the summers are warm, sowing must be delayed until early August. The plants develop quickly, forming large, tightly folded heads of tender leaves which are well blanched in the heart. Chinese cabbage can be served as salad like lettuce or when cut, makes a delicious cole-slaw.

PE-TSAI—The leaves when young are crimped, of light green color and appear like smooth leaved mustard. The plant as it matures becomes more upright and forms heads much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white with very white midribs. It is of distinctive flavor, very mild and pleasant.

Pkt., 10c; oz., 40c; 2 oz., 70c; 1/4 lb., \$1.25; 1/2 lb., \$2.25; 1 lb., \$4.00.

Soil Disinfectant

The following is highly recommended to control black leg and damping off on cabbage plants: Two pounds of Formaldehyde to 50 gallons of water. One gallon of solution to square yard two weeks before planting.

Carrots

Few people realize that Carrots contain a very large amount of starch, the main constituent of both bread and potatoes. Carrots are also rich in sugar. Easily grown, rarely if ever attacked by insects, and very rich in food value. Carrots should be grown much more largely in the garden. When too large

for table use, Carrots make a splendid stock food, hence there is no loss.

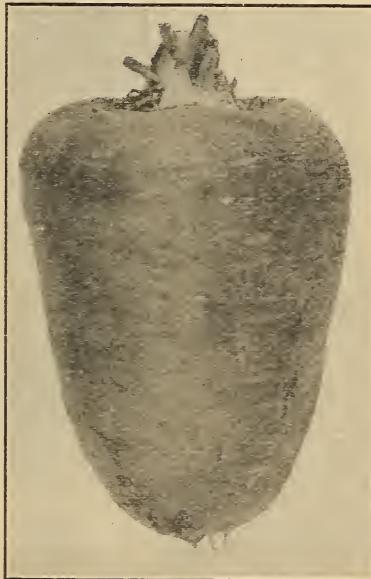
CULTURE—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops sow any time until the middle of June.

Carrots—Table

CHANTENAY—Early, scarlet color, stump rooted, broad, thick shoulder, heavy cropper. Fine quality. In shape and appearance it takes a place between the Oxheart and the Danvers Half Long.

DANVERS HALF-LONG, IMPROVED—A first-class carrot for all soils. The root is of a rich, dark orange color and grows very smooth and handsome. Very productive, producing as much tonnage to the acre as the longer field sorts, and is much easier harvested.

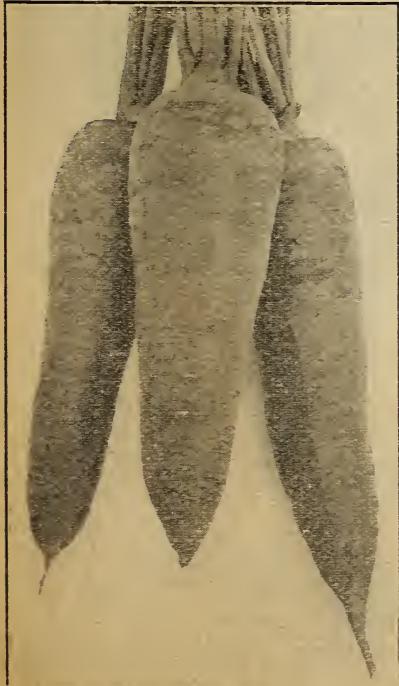
LONG ORANGE, IMPROVED—A deep orange colored variety. Heavy cropper. Good for either garden or field culture, especially adapted for light, deep soils where it can be easily dug, as the roots penetrate farther into the soil than other varieties. Grows fairly thick and entirely under ground, thereby avoiding green shoulders.



Oxheart

OXHEART OR GUERANDE—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows more rapidly and the root attains a weight of more than a pound. It is tender and of good flavor, and a variety that we can recommend to all market gardeners.

CHANTENAY—Half-Long, Long Orange and Oxheart: Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00, postpaid; at purchaser's expense: 5 lbs., \$4.25; 10 lbs., \$7.50.



Danvers Half Long

Investigate our Sol Hot Brooder.
Has stood the test of years. Nothing
better in oil brooders.

NANTES—This is frequently called and sold as coreless. This however is not correct as it is not entirely coreless, but much nearer to it than any other variety. The flesh is red and very sweet, a stump rooted type growing about six inches in length. Leaves are fine, roots smooth and is highly recommended for home gardens.

SCARLET HORN, EARLY—A very early variety. Recommended for the very early market and family garden. Texture fine; very delicate in flavor.

NANTES AND SCARLET HORN—Pkt., 5c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 45c; $\frac{1}{2}$ lb., 75c; 1 lb., \$1.25, postpaid; at purchaser's expense: 5 lbs., \$5.00; 10 lbs., \$8.50.

CAULIFLOWER
— Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it. Any one will be reasonably sure of success with this most desirable vegetable if the cultural directions given below are carefully followed.

The Cauliflower is highly esteemed for the mild, delicate flavor and extreme tenderness of the solid white heads.

CULTURE—The soil for cauliflower should be like that for cabbage, but is better if made richer than is ordinarily used for that crop. It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sowing should be so regulated as to bring it to maturity either before the hot summer weather sets in or

not until the cooler weather of the fall. After the heads begin to form, draw the leaves over and pin or tie them together to protect the heads from the sun and keep them white.

CLOVER LEAF SNOWBALL (Best imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late. Pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25; 2 oz., \$4.00; $\frac{1}{4}$ lb., \$7.00.

DANISH GIANT OR DRY WEATHER—(Best Imported Stock)—Large leaved, with pure white compact heads. It is truly a first-class cauliflower and is specially adapted to dry locations and to resisting the effects of drought. Two weeks later than the Snowball, when planted at same time. Pkt., 15c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.75; 2 oz., \$5.00; $\frac{1}{4}$ lb., \$9.00.

SIX WEEKS—This variety, as its name implies it is a very early variety and one that has been thoroughly tested by the originator

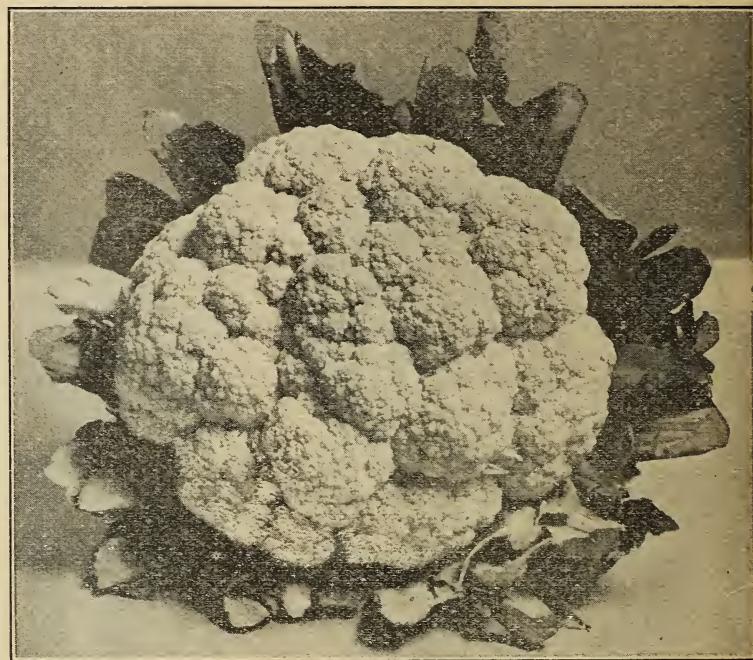
Carrots—Stock

WHITE BELGIAN—Grows one-third out of the ground. Root pure white, green above the ground. The flesh is of deep yellow color, tender and of excellent flavor.

YELLOW GIANT OR SAN JOSE CHAMPION—This carrot is a half-long variety, with an immense broad shoulder. The roots penetrate less than one-half the depth into the ground. The color is a bright yellow, and is perfection for giving the proper color to your butter.

All stock carrots: Oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 35c; $\frac{1}{2}$ lb., 50c; 1 lb., 85c, postpaid; at purchaser's expense: 5 lbs., \$3.75; 10 lbs., \$6.50.

CAULIFLOWER



Snowball

and grower. This has been placed upon the market by a well-known and reliable Holland grower and we are assured that it is earlier than the Snowball and equally as good. It is therefore a variety that should appeal to cauliflower growers. Price, pkt., 15c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.75; 2 oz., \$5.00; $\frac{1}{4}$ lb., \$9.00.

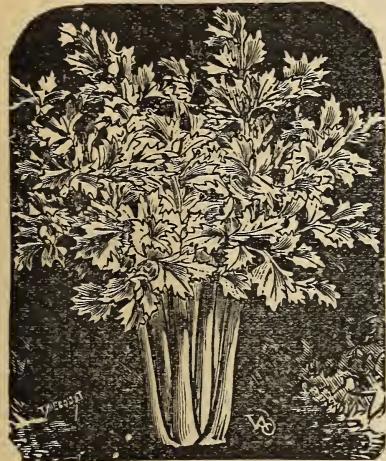
Celery

Finely blanched Celery is one of the most popular and attractive vegetables for the table during fall and winter. Would advise making two plantings where wanted for either home use or market. For the earliest crop the seed should be sown in hotbeds during February or March, and the young plants set in rich soil as soon as large enough, after the trees start out

in leaf. For the fall or main crop seed may be sown in the open ground as early in the spring as the soil can be worked in good condition, and the plants should be set in the rows during July.

CULTURE—Sow in light, rich soil, in shallow drills, and cover the seed lightly with finely sifted mold. When the plants are 5 to 6 inches high transplant to rows 3 to 4 feet apart, according to the variety, allowing 8 inches between the plants in the row. Cultivate freely and earth up to blanch the stems, pressing the soil firmly around the plant almost to the top, care being taken not to cover the tops of the center shoots.

Early



White Plume Celery

WHITE PLUME—(French grown). A very popular variety on account of its naturally white leaf stalks, which require less blanching than the other kinds. It is early, a fine market sort and the variety mostly used by gardeners. Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; 1 lb., \$3.25.

Medium

EASY BLANCHING—A medium early variety of recent introduction and of great merit. Of dwarf and compact habit with light green foliage. Stalks from 20 to 24 inches high, solid, pure white, heavy and crisp of extra fine quality and a good keeper. As an early celery by the use of boards it blanches in ten days to two weeks. As a late celery it can be kept to the holidays. Pkt., 10c; oz., 75c; 2 oz., \$1.40; 1/4 lb., \$2.50; 1/2 lb., \$4.50; 1 lb., \$8.00.

GOLDEN SELF-BLANCHING—(French grown). It is of a rich, golden tint when ready for the table; very handsome and of excellent quality. Pkt., 10c; oz., 75c; 2 oz., \$1.40; 1/4 lb., \$2.50; 1/2 lb., \$4.50; 1 lb., \$8.00.

Late

CELERIAC OR TURNIP-ROOTED—Grown exclusively for its roots, which are turnip-shaped, very smooth, tender and narrow-like.

The roots are cooked and sliced; used with vinegar they make an excellent salad.

Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 85c; 1/2 lb., \$1.50; 1 lb., \$2.50.

CHICORY—*Witloof* or *French Endive*: This variety produces leaves with wide ribs or leaf stalks which form a cluster or head.

Pkt., 10c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.60; 1 lb., \$3.00.

Corn—Sweet

First Early

WHITE CORY EXTRA EARLY

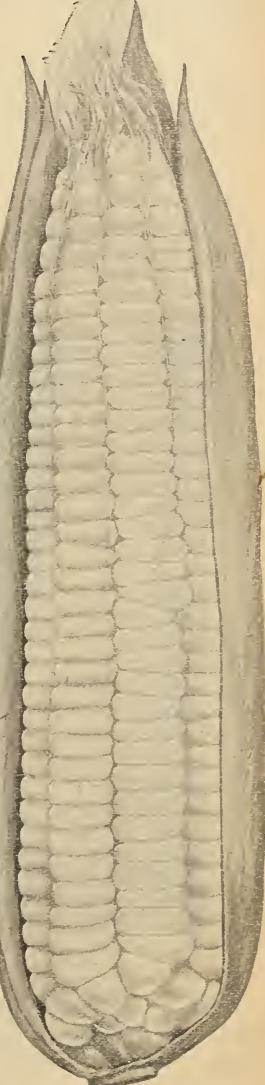
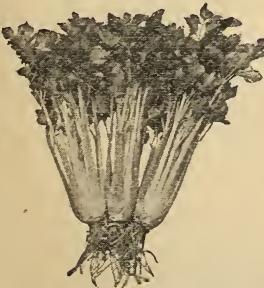
—One of the earliest varieties, well and favorably known in all parts of the country. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains.

EARLY MINNESOTA—This deservedly popular variety is one of the best second early sorts for the market and the home garden. The stalks are about six feet high, bearing one or two ears well covered with husks. The ears are about eight inches long, eight rowed, kernels very broad, white, sweet and tender, not shrinking much in drying. By careful selection we have developed a stock of this standard variety which is remarkably uniform and in which all the good qualities that have made this sort so desirable are intensified.

GOLDEN BANTAM—Of extreme-hardiness, this can be planted earlier than any other sweet corn, and will then produce the earliest supply of ears for the table. The stalks grow from three and one-half to four feet in height and produce one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden-yellow grains, extending to the rounded tip.

The flavor is deliciously distinct,

Golden Bantam
exceptionally rich and sugary, the sweetest of all, superior to that of any other corn. Of all varieties the name "Sugar Corn" seems to fit this best, as it is so unusually sweet.



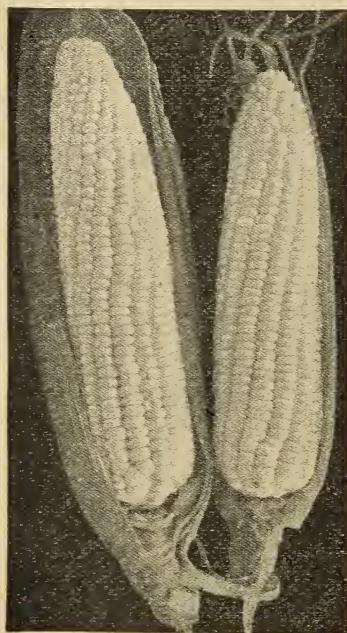
HOWLING MOB—This variety has become very popular on account of its earliness, and its possessing the sweet flavor of the later varieties. The stalks are of strong, vigorous growth, four and one-half to five feet in height, have abundant foliage and generally produce two fine ears to each stalk. The ears measure seven to nine inches in length, with twelve or fourteen rows of good-sized pearly-white grains. They are covered with a heavy husk which extends well out from the tip of the ears and affords good protection from the green worms which are so often destructive to early varieties.

PEEP O' DAY—For earliness, flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

White Cory, Early Minnesota, Golden Bantam, Howling Mob and Peep o'Day: 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.75, postpaid. At purchaser's expense: 1 lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.40; 25 lbs., \$5.75; 50 lbs., \$10.00; 100 lbs., \$17.50.

Medium Early

COUNTRY GENTLEMAN—A favorite second early or main-crop variety with all private gardeners for its tenderness, delicacy, small, deep grains and sweetness. The ears are of fair size, frequently three or four to the stalk.



Early Evergreen

EARLY EVERGREEN—This fine variety yields large, handsome, ten and twelve rowed ears, averaging about nine inches in length. It is very sweet, has a fine flavor and remains tender a remarkably long time. Both varieties of medium early.

COUNTRY GENTLEMAN AND EARLY EVERGREEN—1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.75, postpaid. At purchaser's expense: 1 lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.50; 25 lbs., \$5.75; 50 lbs., \$10.00; 100 lbs., \$17.50.

Late

STOWELL'S EVERGREEN—The standard main crop variety, much used for the home garden, market or canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. The ears are about seven to eight inches long, fourteen to twenty rowed, with very white grain. The stalks are about seven and one-half feet high. The best known and most largely planted of all the late varieties.

1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.75, postpaid; at purchaser's expense: 1 lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.40; 25 lbs., \$5.75; 50 lbs., \$10.00; 100 lbs., \$17.50.

Special

PORTLAND MARKET—This variety has been used on the coast for a number of years, hence was given the above name. It is the result of a cross of two other varieties, and is the earliest white sweet corn on the market, coming in before the Golden Bantam. It has also much larger ears than the Golden Bantam and possesses all the delicious flavor of this well-known variety, and in addition, is snow white. It is grown for us a few miles from Spokane.

1 lb., 35c; 5 lbs., \$1.65; 10 lbs., \$3.00, postpaid; at purchaser's expense: 1 lb., 30c; 5 lbs., \$1.50; 10 lbs., \$2.75.

CULTURE—Sweet corn should not be planted deeper than one inch to one and a half inches, as it is liable to rot in the ground, especially if the ground has not become warm. Hoe often, drawing the earth against the stems and break off the side shoots.

Corn—Field

Corn growing is becoming more and more a staple product in the Northwest and experiments have shown that on carefully prepared fertile soil the difference in seed has made a difference in the yield of double the bushels per acre. Quotations on field corn not guaranteed, and is subject to change.

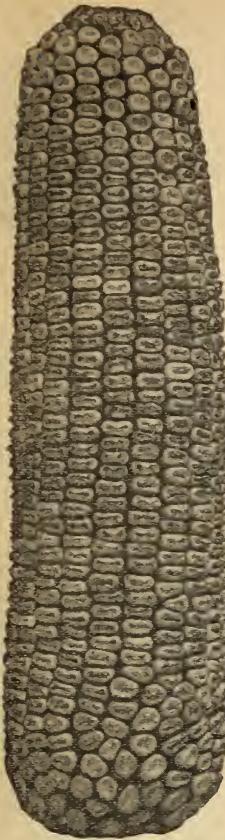
Dent, Yellow

MINNESOTA No. 13—The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for Northwestern planting are: Its earliness, its enormous productiveness, its adaptability to a great variety of soils and climates. The ears are of handsome appearance, bearing 16 to 20 rows of bright, rich yellow, smooth, wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color. The stalks grow to a height of seven feet and being leafy make excellent and very nutritious fodder. A variety of corn which shows such valuable characteristics is an acquisition on any farm, especially for planting in the Northwest where early frosts are common.

MINNESOTA KING

—We regard this corn in some respects as the most valuable early corn for the Inland Empire. It seems to possess a faculty of growing right along and making a crop during weather and under conditions that would ruin other varieties. In appearance the Minnesota King is remarkably distinct, being a half yellow dent; the kernels are very broad and are a rich golden color.

PRIDE OF THE NORTH — This is a standard early variety of corn in the East, but is not sure to mature here. From the fact that it produces a large amount of fodder and being early enough to get in proper condition for ensilage, it has taken the lead over all other corns for this purpose.



Yellow Dent

Dent, White

SILVER KING NO. 7—This variety has given almost universal satisfaction to dairy men that wanted a reliable corn for silo purposes.

It is an early variety, therefore is valuable if the dairyman or farmer wants matured ears.

It is of medium size, deep grained and a heavy yielder.

All Varieties of Field Corn—Lb., 15c, postpaid; at customer's expense: 1 lb., 10c; 5 lbs., 50c; 10 lbs., \$1.00; 25 lbs., \$2.25; 50 lbs., \$4.00; 100 lbs., \$7.00; 500 lbs., \$32.50.

Please note that the prices made on field corn are estimates only and may be changed. If

wanting quantity, please write stating variety and quantity wanted, otherwise full value will be forwarded for the full amount of money received.

Pop

WHITE RICE—The best corn for popping and for the general market; early, white pointed kernels. 1 lb., 25c, postage paid. At purchaser's expense, 10 lbs., \$1.50.

Cress

PEPPER GRASS (Curled)—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants. As they are milder and more tender when young, the seed should be sown at intervals of 10 to 15 days, making the first sowing as soon as the ground can be prepared. Pkt., 5c; 1 oz., 20c; 2 oz., 30c; 1/4 lb., 50c.

WATER—A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seed thinly along the banks of any shallow stream early in the spring. Pkt., 10c; oz., 40c; 2 oz., 75c; 1/4 lb., \$1.25; 1/2 lb., \$2.25; 1 lb., \$4.00.

Cucumbers

This is one of the vegetables that can be grown to perfection by any one who can control a few square yards of reasonably good soil that is fully exposed to the sun. Every family should be supplied from its own garden, since the fruit is so much better when gathered fresh from the vines as desired for use than it is in the more or less wilted condition in which it is found on the market.

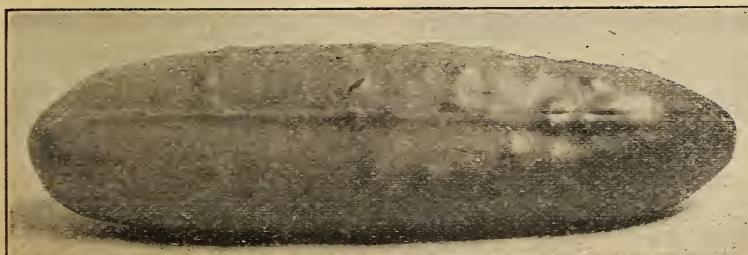
CULTURE—Plant in hills about four feet apart each way; thin out to four of the strongest plants in each hill; they succeed best in warm, moist, rich, loamy soil. The cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

BOSTON PICKLING—This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender.

DAVIS PERFECT—This cucumber has an ideal shape and a beautiful dark green color. Its eating qualities are unsurpassed, both because of its fine flavor and its small number of seeds. On account of its fine flavor, small number of seeds, and its great productiveness, it is a general favorite and is highly recommended.

EARLY CLUSTER—A short, prickly variety; usually growing in clusters. Is a prolific bearer, and one of the earliest; flavor excellent.

EVERBEARING—This is not only a very early variety but is also extremely prolific. If the fruit is kept gathered, vines will continue in bearing throughout the season. The fruit



Long Green

is of medium size and rich dark green color, average from four to five inches in length by an inch and a half in diameter. Owing to its great productiveness it is an excellent variety to plant for producing small pickles.

LONG GREEN, IMPROVED—The vines are very vigorous and productive. The fruit is very long, growing frequently from 12 to 15 inches, and are uniformly slender and of a beautiful dark green color. The large warts and spines are well distributed over the surface instead of being clustered at one end as in inferior stocks. This variety furnishes some fruit early but matures the bulk of its crop rather late. It is a standard sort for slicing and is very largely used for pickles. This is probably the most extensively used cucumber for the home garden and market.

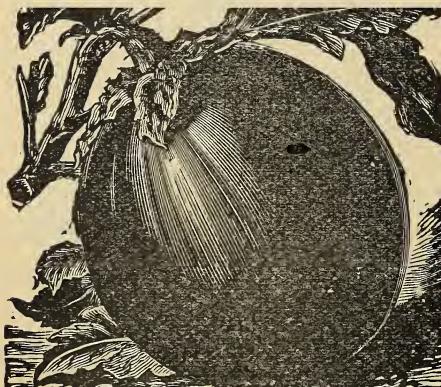
SHORT GREEN, OR EARLY FRAME—A vigorous and productive variety producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling.

WHITE SPINE, IMPROVED—One of the best sorts for trade use, fruiting early and abundantly; fruit uniformly straight and handsome; light green, with a few white spines.

All Varieties of Cucumbers—Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 75c; lb., \$1.25; at purchaser's expense: 5 lbs., \$5.00; 10 lbs., \$8.50.

Egg Plant

CULTURE—Sow in hotbeds very early in the spring; transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside till nights have become warm, as the least frost or cold nights will greatly retard their growth.



Improved New York

NEW YORK IMPROVED—This is a standard variety, both for market and home garden; a favorite anywhere.

BLACK BEAUTY—This beautiful egg plant is 10 days earlier than the New York Improved. The fruit is broad and thick, of most attractive form, and does not fade or change to a lighter color at the blossom end. The fruits set freely, and are ready for market early, so the crop can be gathered before danger of frost. Both varieties of egg plants. Oz., 60c; 2 oz., \$1.00; $\frac{1}{4}$ lb., \$1.75; $\frac{1}{2}$ lb., \$3.00; 1 lb., \$5.00.

Endive



This is one of the most refreshing and attractive of all autumn and winter salads. It is most appetizing when served mixed with lettuce, with French dressing. Sow seed from middle of June to last of August.

BROAD LEAVED BATAVIAN—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched form one of the best winter salads. Crisp, tender and fine flavor.

LARGE GREEN CURLED—A fine market sort; tender, green leaves; blanch white; hardy.

Both varieties of Endive. Pkt., 5c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 85c; 1 lb., \$1.50.

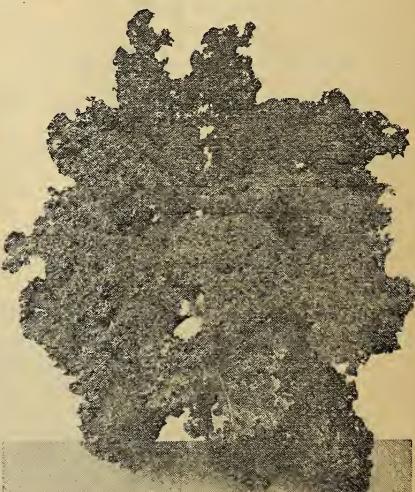
Garlic

Has a bulbous root, with a strong, penetrating odor and flavor. Belongs to the onion family and cultivated much in the same manner. We can not offer seed, but can supply the bulbs or sets.

This is extensively used in many places for flavoring soups, stews, etc. The sets should be planted early in spring and treated like onions. 1 lb., 50c.

Kale or Borecole

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves that are tender and of excellent flavor. It requires the same treatment as cabbage, and is very hardy, being improved by frost.



DWARF GREEN CURLED SCOTCH—Plant low and compact, with large, bright, deep green

leaves, curled, cut and crimped until the whole plant resembles a bunch of moss.

TALL GREEN CURLED SCOTCH—Produces an abundance of dark green, curled leaves. Very hardy.

Both varieties of Kale: Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 50c; 1/2 lb., 90c; lb., \$1.50.

THOUSAND HEADED—The great demand for this wonderful forage plant proves it to be the most valuable green feed for dairy and stockmen. Endorsed by agricultural colleges and government stations. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00.

Kohl-Rabi



The Kohl-Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of each. The edible part is a turnip-shaped bulb. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and stringy.

EARLY PURPLE—A very desirable sort for forcing or early out-door

planting. Bulbs are of medium size, purple, flesh white. Very early, with small top, the leaf stems being tinged with purple.

EARLY WHITE VIENNA—Is the earliest and best for forcing; is very tender, excellent for table use.

Both varieties of Kohl-Rabi: Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.50; lb., \$2.75.

Leek

LARGE LONDON, OR SCOTCH FLAG—This leek is generally considered more delicate than the onion for soup, etc. Sow in seedbed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hoe between them. Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.50; lb., \$2.75.

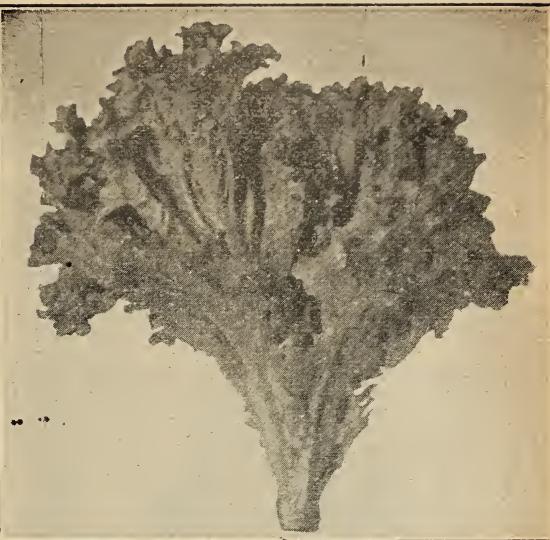
Lettuce

Lettuce to be its best should be grown rapidly, hence the soil should be made as rich as possible by liberal manuring and thorough preparation.

CULTURE—Sow every month as soon as the ground is open, in drills one foot apart, covering the seeds about one-quarter of an inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. Does best in rich, moist soil.

Early and Forcing

BIG BOSTON (Seed White)—This market variety is very popular for outdoor culture and is also in demand as a compact, large heading, forcing sort for cold-frames. The plants are large, very hardy and vigorous. The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard and crisp. In color they are bright light green, the head slightly tinged with reddish brown. The inner leaves blanch to an attractive greenish white, tinged with light yellow. It heads up under cold weather conditions better than any other variety.



Grand Rapids

GRAND RAPIDS (Seed Black)—As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. This plant is upright and forms a loose head or cluster of large, bright leaves, slightly crimped and blistered and rather thin.

Big Boston and Grand Rapids: Pkt. 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; at purchaser's expense, 5 lbs., \$6.25.

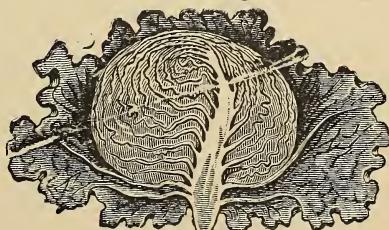
Loosehead or Cutting

PRIZEHEAD—Large, loose-headed sort. The leaves are tinged with brown, very heavy.

CURLED SIMPSON OR SILESIA—One of the best curled varieties for early sowing out of doors. Very popular with market gardeners and private planters.

Prizehead and Simpson's. Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; 1/2 lb., 85c; 1 lb., \$1.50; at purchaser's expense: 5 lbs., \$6.25.

Heading



Hanson

HANSON—One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. The inner leaves are white, very crisp and sweet. This thin-leaved, curly, tight-heading sort is very exten-

sively used for the kitchen garden as well as market.

ICEBERG—Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly blanched. It is a quick grower and always crisp and tender.

Hanson and Iceberg: Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; 1/2 lb., 85c; lb., \$1.50; at purchaser's expense, 5 lbs., \$6.25.

NEW YORK OR WONDERFUL—We pride ourselves upon the extra fine strain of our New York Lettuce. At the present time this variety is more generally used for commercial purposes than any other, hence it is very important to supply the growers with seed as nearly perfect as possible. This seed has been grown for us in Idaho by one noted for his painstaking and careful roguing of all heads not true to type, therefore we are confident that the seed we have is far superior to the seed grown by ordinary growers, and generally offered for sale by seedhouses. The mam-



New York

moth heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. The New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head. Pkt., 10c; oz., 25c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.50; 1 lb., \$2.50; at purchaser's expense: 5 lbs., \$10.00; 10 lbs., \$17.50.

Cos

PARIS WHITE COS—The Cos Lettuce differs entirely in shape from other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green.

Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 60c; 1/2 lb., 1.00; 1 lb., 1.75.

Chicken Lettuce

This lettuce furnishes a great amount of green feed and is therefore highly recommended for chicken or rabbit feed. It does not form heads, but produces stalks three to four feet high. The leaves can be pulled from the stalks and it continues to grow and produce more leaves.

Pkt., 10c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; 1/2 lb., \$1.00; 1 lb., \$1.75.

Mushroom Spawn

With intelligent care and good spawn, mushroom rooms can be made to pay handsomely. They can be successfully grown in a dry cellar or under the benches of a greenhouse, where the temperature can be kept from 50 to 60 degrees.

LAMBERT'S PURE CULTURE—A new kind of spawn, without doubt the best. It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Brick, 45c, postpaid; at purchaser's expense: Brick, 35c; 5 bricks, \$1.75.

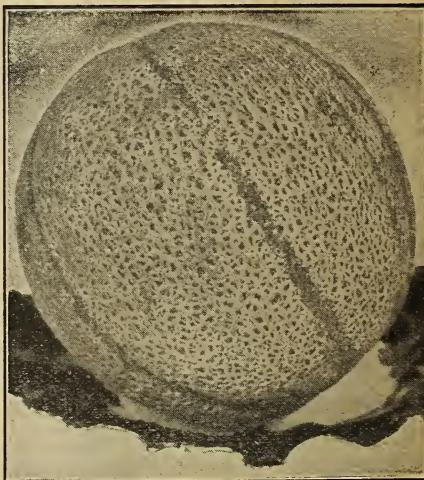
Leaflet on Mushroom culture sent with order if requested.



Muskmelons

CULTURE—The seed should not be planted until the soil has become thoroughly warmed, about corn-planting time. Plant five or six seeds to the hill, in hills four to six feet apart. Rich soil or well-rotted manure should be used in the hills.

Green-Fleshed Varieties



Rockyford

ROCKY FORD OR NETTED GEM—Has attained in an incredibly short time a national reputation. It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of a light green color throughout.

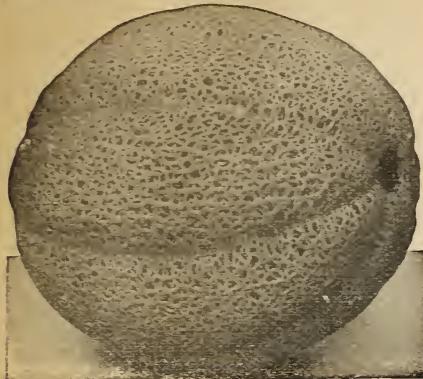
This melon has proved to be very profitable, hence popular on account of its superior quality and its ready sale on the market.

HACKENSACK EXTRA EARLY IMPROVED—A selection from and an improvement on the old Hackensack, and similar in shape and appearance; nearly as large and fully 10 days earlier; one of the finest for market gardeners; quality perfect.

All varieties of green fleshed muskmelons not otherwise quoted. Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; 1/2 lb., 75c; 1 lb., \$1.25; at purchaser's expense, 5 lbs., \$5.00; 10 lbs., \$9.00.

Salmon-Fleshed Varieties

BANANA—A very splendid melon averaging from 20 to 28 inches in length and almost solid. The meat is of a rich salmon color, and has a flavor which is truly delicious. Don't pick the melons until they are thoroughly ripe, as they are then at their best.



Burrell Gem

BURRELL GEM—Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about $4\frac{1}{2}$ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay.

EMERALD GEM—This is a variety of excellent quality and of medium size. The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a deep salmon color, and ripens to the green rind. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.

HEARTS OF GOLD—While growing, these melons were rogued and rerogued to such an

extent that upon examination of the field it was declared by one competent to judge that it was almost a perfect field of Hearts of Gold. We have been supplying most of the growers in the melon producing sections tributary to Spokane and they have been highly pleased with the uniformity and productiveness of their crops. This is an orange-fleshed variety of medium size, ideal as a shipping melon and a desirable mid-season sort for the home garden. The vines are vigorous, blight-resisting and very productive. The fruits are uniformly fine and dense, extending over practically the entire surface. The rind is thin, yet very firm, so that the melons arrive in perfect condition in distant markets. The flesh is very thick, firm, highly flavored, of fine texture and delicious flavor.

Hearts of Gold originated from Hoodoo, but has been very greatly improved. What was known as Hoodoo was of the flat type, while Hearts of Gold are somewhat elongated.

Selected Seed—Pkt., 10c; oz., 25c; 2 oz., 40c; $\frac{1}{4}$ lb., 75c; $\frac{1}{2}$ lb., \$1.25; 1 lb., \$2.00; at purchaser's expense: 5 lbs., \$8.75; 10 lbs., \$15.00.

LARGE YELLOW—The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

OSAGE OR MILLER'S CREAM—The skin is very thin, of a dark green color and slightly jetted. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious to the rind. It is also very productive. It is a remarkable keeper, and will stand shipping.

POLLOCK 10-25—Is a re-selection of the Pollocks Netted Gem or Pollock's No. 25. It is not an untried variety but one that has proved its merit which distinguishes it as the most popular melon with growers everywhere. It has superseded No. 25 by reason of its long distance shipping qualities. An early melon of the solid netted type, very small seed cavity with thick luscious flesh of genuine salmon tint shading to green near the rind. A prolific yielder and is admittedly the finest salmon-fleshed melon ever introduced.

All varieties of salmon fleshed musk melons unless otherwise quoted: Pkt., 5c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 75c; 1 lb., \$1.25; at purchaser's expense: 5 lbs., \$5.00; 10 lbs., \$9.00.



Hearts of Gold

Special Melons

HALE'S BEST—An extra early salmon tint of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is ten days to two weeks earlier than any other strain of the famous Rockyford or Netted Gem variety. This has been extensively grown in California the past two or three years, and has there demonstrated its real value. Hale's Best Rockyford Cantaloupe, by reason of its earliness, quality, flavor and productiveness, has proved itself to be the most profitable cantaloupe known. You will notice that our quotation on this variety is somewhat higher than quotations made by some other seed houses. Growers are very human and are very much like the rest of us, hence some are much more particular and dependable than others. Some growers offer this variety as cheap as other varieties. The grower from whom we secure our supply has specialized on this variety, and has given it, and is now giving it, the utmost care in the selection of stock seed, roguing crop, and cleaning same. Grown at a high altitude in Colorado, it is well adapted to this more northern section.

HONEY DEW—It is as sweet as honey and has the mingling of several flowers—pineapple, banana and vanilla predominating.

The average size of the melon is six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth with an occasional net, is a creamy yellow when ripe. The flesh is very thick, and very fine grained. The seed cavity is very small.

It matures about ten days later than the Rocky Ford, is very prolific and will keep for several weeks if picked a short time before it is fully matured.

CASSABA—The Cassabas are primarily for winter use. They require a long season for maturing but the fruits are exceptionally good keepers. The skin of the fruits is usually furrowed and they possess little or none of the common musk melon odor. The fruits may be picked when the light streaks have become quite yellow. Store the fruits so they do not touch each other, in a cool, dark place. When the rind becomes slightly softened and moist, they are ready to cut.

GOLDEN BEAUTY—One of the best cassabas. It is a variety grown extensively for shipment. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet. Hale's Best, Honey Dew and Golden Beauty:

Pkt., 10c; oz., 25c; 2 oz., 45c; $\frac{1}{4}$ lb., 75c; $\frac{1}{2}$ lb., \$1.25; lb., \$2.00; at purchaser's expense, 5 lbs., \$8.75; 10 lbs., \$15.00.

Watermelons

Watermelon seed, like all other seeds, should be selected from true types and from melons that have attained a large growth and ripened early. This method will produce and preserve true strains.

CULTURE—Watermelons thrive best on light, well drained soils, but give good results on any good rich garden soil that is properly drained and cultivated. Plant after the weather is settled and ground warm. Hills should be eight feet apart each way and with well rotted manure thoroughly worked into each hill.

CUBAN QUEEN—A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped, dark and light green.

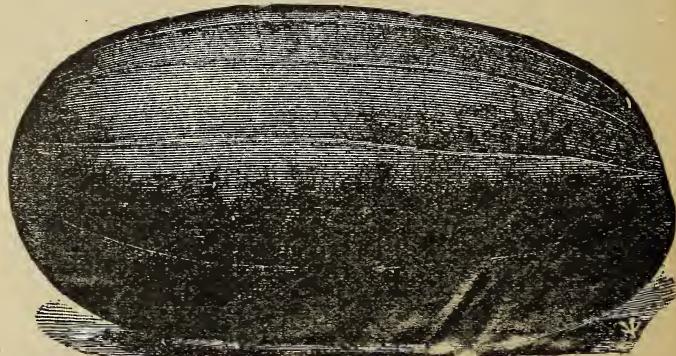
FLORIDA FAVORITE—Oblong in shape, and growing to a very large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet.

FORDHOOK EARLY—This is as its name implies, a very early melon, and will ripen and give satisfactory results in sections where a great many other varieties will not ripen. It is the earliest watermelon we list and among the very earliest grown; of medium size and of excellent quality. Dark green skin mottled with a deeper shade; flesh bright red.

GEORGIA RATTLESNAKE OR GYPSY—An old and still a popular variety. Large, oblong with decided stripes of light and deep green. A splendid shipper, flesh bright red and of good quality.

KLECKLEY'S SWEET, OR MONTE CRISTO—(White Seeded)—This is one of the best flavored melons in cultivation, and of a shape and color that is extremely desirable. The rind is very dark green, very thin; flesh deep scarlet; fine, and of delicious quality. For the home market and family garden it is decidedly one of the best.

Attractive red color, crisp, sweet and delicious. The heart is large with no core. The appearance and quality of this melon make it desirable for both home and market use.



Kleckley's Sweet

HALBERT HONEY—An exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweet. It is of handsome, long, oval shape, averaging about 18 inches in length, and about six inches in diameter. The skin is an attractive, very dark

green, the flesh is of a beautiful bright red, extending almost to the outer rind. The rind, too, is so thin and brittle that it cracks open very easily and will not stand hauling or shipping long distances.

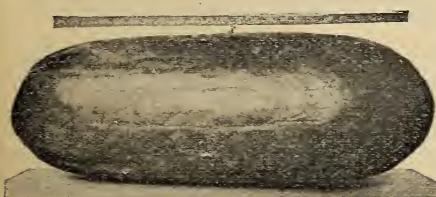


Ice Cream

ICE CREAM (Black Seeded)—This melon is of recent introduction and has many things to recommend it. While a little later in ripening than the ordinary melon, this is more than offset by its extra fine keeping qualities, as with ordinary care it can be kept till Thanksgiving. This new Ice Cream Watermelon is small when compared in size to other watermelons and somewhat resembles in appearance the citron. Oval in shape, light in color, with a very faint stripe, seeds small and black, flesh bright red with a thin rind and solid meat and a flavor that far surpasses that of any other watermelon. It is crisp and delicious and without doubt will come up to the highest expectations of the watermelon loving public.

PEERLESS—One of the best melons in cultivation. Rind thin, light mottled green. Flesh bright scarlet; solid to the center, sweet as honey.

IRISH GREY—A distinct and very valuable melon; wonderfully productive; long, thick, uniform. Color of rind, yellowish gray, interwoven with thread-like veins; smooth, marble-like surface almost as hard as the citron. Flesh sparkling bright red, sweet and entirely free from hard centers or stringiness. Will not break when sliced. One of the best shippers.



Tom Watson

TOM WATSON—A large, long melon similar in shape and color to the Kleckley's Sweet and possessing the same delicious flavor and quality, but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Wherever grown it has become very popular as a shipping sort. There has been an increasing demand of late for a better quality of shipping melon and this demand has been met in most exceptional degree by the Tom Watson.

Cuban Queen, Florida Favorite, Fordhook Early, Georgia Rattlesnake, Kleckley's Sweet, Peerless and Tom Watson: Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 60c; lb., \$1.00; at purchaser's expense: 5 lb., \$4.25; 10 lbs., \$7.50.

KLONDIKE—A melon of good size and shape with dark green skin. Fruits show a suggestion of ribbing but are smooth. The flesh is highly colored and of fine quality and flavor. The seeds are small, smooth and black. This melon has become very popular on account of the attractive, bright red interior color, combined with high quality, and the thin but tough rind which stands shipping well.

Halbert Honey, Irish Grey and Klondike: Pkt., 5c; Ice Cream, Pkt., 10c; all four varieties, per oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 75c; lb., \$1.25; at purchaser's expense: 5 lbs., \$5.00; 10 lbs., \$9.00.

CITRON—For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid.

Pkt., 5c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c; $\frac{1}{2}$ lb., 85c; 1 lb., \$1.50.

Mustard

MUSTARD is used alone as "greens" or with cress as salad. Sow any time in the spring, in rows.



SOUTHERN GIANT CURLED—The leaves are large, light green with tinge of yellow, much crimped and frilled at edges. The plant is upright or slightly spreading in growth.

WHITE ENGLISH—The leaves are comparatively small and smooth, deeply cut or divided and of medium dark green color. The plant is upright, of rapid growth and soon bolts to seed. The leaves, when young, are mild and tender.

Both varieties of mustard: Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 60c; 1 lb., \$1.00.

Okra or Gumbo

The long, tender pods of Okra are very delicious when sliced and cooked in soups. While this is its chief use, it is also boiled and served like other vegetables. The dwarf sorts may be planted in hills or in rows about three feet apart. Plant in any good soil about May 15. The pods should be gathered when very young, as they are then very tender.

An early dwarf prolific variety with thick green pods.

DWARF GREEN—Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 60c; 1 lb., \$1.00.

Onions

The Onion is one of the most extensively used of all vegetables. It not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life.

It is readily seen that there is a great variety and diversity in the shape, color, size, and flavor of onions, also in their keeping qualities. The keeping is due in some respects to the different varieties, but the care bestowed upon the selection of the bulbs of the various varieties has much to do to improve their keeping qualities. The time and labor given to this special care and attention adds to the cost, but it is well worth the additional cost to the planter, as it insures better keepers, more uniform type; also a greater yield. Our bulbs and seeds receive the necessary care to insure better results.

CULTURE—Onions do best on a rich loam, previously cultivated for two years. The land should be highly fertilized with well-rotted manure, or complete fertilizers. Culture should be frequent, though shallow. The same ground may be used for onions season after season, if well fertilized annually. Bone meal is an excellent fertilizer.

Brown

AUSTRALIAN—Of medium size. Wonderfully hard and solid, the bulbs are most attractive for market, both as to form and appearance. The color of the skin is a clear amber brown. Specially noted as a long keeper as it keeps well into spring and much longer than any other varieties. Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 70c; 1/2 lb., \$1.20; 1 lb., \$2.00; at purchaser's expense: 1 lb., \$1.90; 5 lbs., \$8.75; 10 lbs., \$16.00.

Red

LARGE RED WETHERSFIELD—This is the standard red variety and a great favorite. It is very extensively grown for home garden use as well as the market. The bulbs are large and are flattened yet quite thick. The skin is deep purplish red. The flesh is light purplish white, moderately fine grained, rather strong but of pleasant flavor. The variety is very productive, one of the best keepers and very popular for general cultivation. Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 85c; 1/2 lb., \$1.40; 1 lb., \$2.50; at purchaser's expense: 1 lb., \$2.40; 5 lbs., \$11.25; 10 lbs., \$20.00.

Yellow

DANVERS—YELLOW FLAT—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds.

Semesan for seeds.

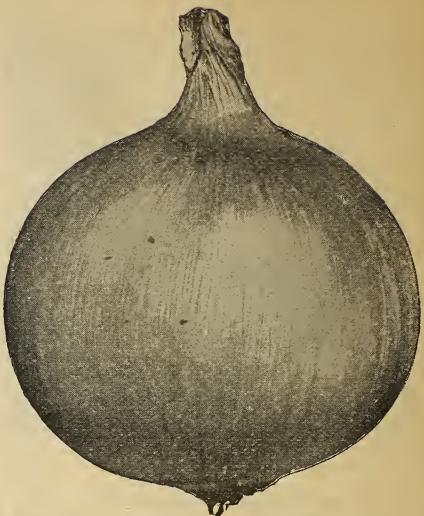
Semesan Jr. for corn.

Semesan Bel for potatoes.

The latest and best disinfectant on the market.

HIGH GRADE FERTILIZERS

Vigoro, Pep, Berry, General, Orchard, Potato, Tomato.



Yellow Globe Danvers

DANVERS—YELLOW GLOBE—This onion is the standard winter sort in many markets. The shape is almost globe form and the bulbs are quite large, with thin necks, ripening down well. The skin is a fine brown orange yellow, while the flesh is pure white, solid and of good quality. Its keeping qualities are of the best and its earliness makes it valuable for market.

Danvers Yellow Flat and Yellow Globe—Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; 1/2 lb., \$1.25; 1 lb., \$2.25; at purchaser's expense: 1 lb., \$2.15; 5 lbs., \$10.00; 10 lbs., \$18.50.

MAMMOTH PRIZETAKER—A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender and of excellent flavor. The variety keeps well if thoroughly ripened and is very desirable for shipping for fall and early winter use.

Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 85c; 1/2 lb., \$1.40; 1 lb., \$2.50; at purchaser's expense: 1 lb., \$2.40; 5 lbs., \$11.25; 10 lbs., \$20.00.

MOUNTAIN DANVERS—This new sort is not as round as Globe Danvers, nor as flat as the Flat Danvers. Color is a beautiful dark yellow, shading to brown. The skin is thick and heavy, which makes it a good keeping and shipping sort. Grown in Colorado, in altitudes which are peculiarly adapted to producing onions of extreme earliness and hardiness. It is from two to three weeks earlier than the Yellow Danvers or Yellow Globe Danvers, and is a cross between the Yellow Globe Danvers and the Australian Brown.

Pkt., 5c; oz., 30c; 2 oz., 60c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; 1 lb., \$3.00; at purchaser's expense: 1 lb., \$2.90; 5 lbs., \$13.75; 10 lbs., \$25.00.

SWEET SPANISH—A very large globe-shaped light yellow onion with small top, and an exceptionally fine shipper. It is a Spanish variety which has quickly become very popular in many sections of this country. This onion combines flavor and mildness with good keeping qualities, thus making it a desirable and profitable onion to grow.

Pkt., 10c; oz., 40c; 2 oz., 75c; 1/4 lb., \$1.25; 1/2 lb., \$2.25; 1 lb., \$4.00.

White

CLOVER LEAF BUNCHING—Do not make the mistake of thinking that all varieties of onions are equally good for bunching. White varieties are always the best, but even in these there is a great difference. This is the very best variety known for bunching. Recommend thick sowing.

BARLETTA—The very earliest white onion in cultivation. Pure paper white in color, of a mild and delicate flavor. Size from 1 to $1\frac{1}{2}$ inches in diameter and $\frac{3}{4}$ -inch in circumference. Specially recommended for pickling.



Silver Skin

PORUGAL OR AMERICAN SILVERSKIN—One of the leading white sorts, beautiful shape and mild flavor. The bulbs are flat in shape and mature early. Handsome in appearance, with clear white skin as beautiful as glistening silver. The flesh is of mild delicious flavor. It is largely used for growing sets on account of its fine shape when small, and also for its good keeping qualities. It is also extensively used as a pickling onion, for which purpose it is well adapted.

SOUTHPORT GLOBE—The superior quality of this wonderful variety is famed the world over. Its mild, delicious flavor and exceptionally attractive appearance have won great prominence. It is a most beautiful onion, of superb eating quality. Handsome, white globe shaped, flesh fine and very white, rich and sweet. It is also one of the best keepers of the silver skinned varieties. A veritable ball of silver, with thin, delicate, pure white skin. It will average from 2 to $2\frac{1}{2}$ inches in diameter, and produces large yields. As soon as harvested they should be stored away in a cool, dark shed to keep them from discoloring.

All varieties of white onions Pkt., 5c; oz., 30c; 2 oz., 60c; $\frac{1}{4}$ lb., \$1.00; $\frac{1}{2}$ lb., \$1.75; 1 lb., \$3.00; at purchaser's expense: 1 lb., \$2.90; 5 lbs., \$13.75; 10 lbs., \$25.00.

Onion Sets

BOTTOM SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market.

YELLOW—Lb., 20c, postpaid; at purchaser's expense, 10 lbs., \$1.25. For large quantities, write for prices, stating quantity wanted.

Parsnips

The value of the Parsnip as a culinary vegetable is well known but is not generally appreciated at its full value for stock feeding. On favorable soil it yields an immense crop of roots, more nutritious than turnips and very valuable for dairy stock.

CULTURE—Parsnips do the best in rich, deep soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate, it should be sown as early as possible.

IMPROVED GUERNSEY (Improved Half-Long)—A greatly improved and wonderfully fine strain of Guernsey parsnip. It is a very heavy cropper. The roots are very smooth, the flesh is finely grained and of most excellent quality.

LONG SMOOTH OR HOLLOW CROWN (Abbott's Improved Long Sugar or Long White Dutch Parsnip)—A great cropper; tender, sugary and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost.

Both varieties of parsnips: Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$4.25; 10 lbs., \$7.00.



Parsley



Very useful for flavoring soups, meats and garnishment. The green leaves are used for flavoring.

EXTRA DOUBLE CURLED—A compact grower, finely cut and much curled variety of bright green color. Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 75c; 1 lb., \$1.25.

Peanuts

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay sub-soil. It possesses a long tap-root which extends deep into the earth. Lb., 50c, postpaid.

Peas, Garden

Hand Picked

Our peas are grown in the Inland Empire under our own supervision and have been very carefully rogued by us, thus insuring peas of the very best possible type. They have been grown by men of experience and in the very choicest places of the Inland Empire.

Extra Early

ALASKA OR EARLIEST OF ALL—Earliest and best of all of the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequalled by any other pea. Vines two to two and one-half feet high. A great favorite with our market gardeners for fall and early spring planting. Lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.50, postpaid; at purchaser's expense: lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$5.00; 50 lbs., \$8.50; 100 lbs., \$15.00.

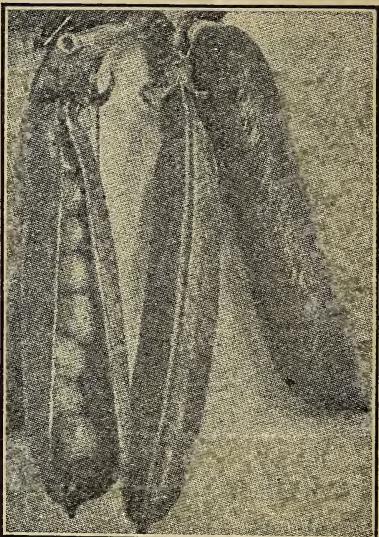
AMERICAN WONDER—The earliest and best of the wrinkled sort. A great favorite for family use. Has stout, branching vines about 18 inches high, and covered with well-filled pods, containing sweet, tender and well-flavored peas.

BLUE BANTAM—Is unequalled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 18 inches in height and carry really enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and are tightly packed with eight to ten large, deep bluish-green peas of most luscious flavor.

LITTLE GEM, McCLEAN'S—The vines grow about 18 inches in length, producing well-filled pods of from $2\frac{1}{2}$ to 3 inches long. The peas are green, wrinkled, sweet and delicious.

Alaska, American Wonder, Little Gem and Blue Bantam: 1 lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.75, postpaid; at purchaser's expense: 1 lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.50; 25 lbs., \$6.00; 50 lbs., \$11.00; 100 lbs., \$20.00.

Second Early

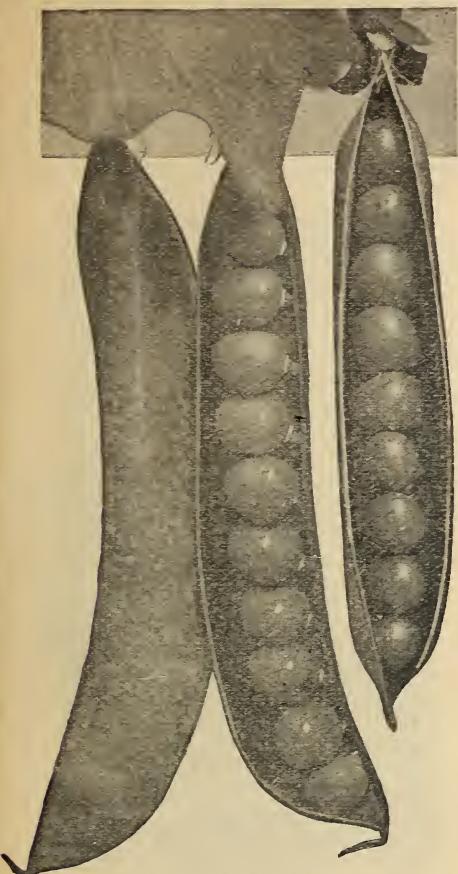


Gradus

GRADUS or PROSPERITY—This remarkable pea is not only large and of the best quality, but it is also nearly as early as the small, round, extra early sorts. It is hardy and may be planted as soon as the ground is fit to work in the spring. The vine grows to a height of about 30 inches. The pods are of a light green color and measure 4 inches or more in length, being as large as Telephone and equally as well-filled with luscious peas—8 to 10 in a pod. The peas are of first-class table quality and retain their color and attractive appearance after cooking.

LAXTONIAN—An early pea of fine size and exceptional quality. The vines are dwarf, growing from 15 to 20 inches, but the pods are from 4 to $4\frac{1}{2}$ inches long, of bluish green color, and pointed at the end. Each pod contains from seven to ten peas of very large size and delicious flavor. The vines are vigorous, of fine dark green color.

TELEPHONE, DWARF—Produces handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent sugary flavor; vines very strong, growing from 18 to 24 inches high. The pods are of large size, filled with large, delicious peas.



Dwarf Telephone

Tall

TELEPHONE—The tall telephone still remains a great favorite and one of the leading varieties. The vines grow from 4 to 5 feet and are strong and vigorous, producing large pods of about four inches in length, of a deep green color and well filled with large peas of a most luscious flavor.

Gradus, Laxtonian, Dwarf and Tall Telephones: Lb., 30c; 5 lbs., \$1.40; 10 lbs., \$2.75, postpaid; at purchaser's expense: 1 lb., 25c; 5 lbs., \$1.25; 10 lbs., \$2.50; 25 lbs., \$6.00; 50 lbs., \$11.00; 100 lbs., \$20.00.

Peppers

CULTURE—Sow the seed early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows 18 inches apart and one foot apart in the row.

CHINESE GIANT—An enormous fruiting variety, averaging 12 to 15 inches in circumference. Notwithstanding its large size, it is very early and very prolific. Plants are healthy, well branched, about two feet high and carry an enormous load of fruit, often having the appearance of being bunched together. Flesh is thick, tender, mild and sweet, and is un-

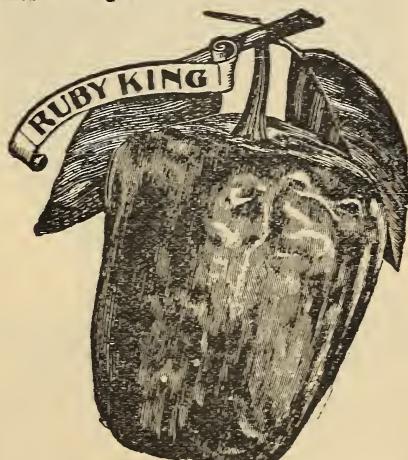
excelled for salad or stuffed as mangoes. When ripe the peppers are a rich, glossy scarlet, making them of unusually fine appearance. Pkt., 10c; oz., 60c; 2 oz., \$1.10; 1/4 lb., \$2.00.



Chinese Giant

LARGE BELL OR BULL NOSE—Sometimes called Sweet Mountain. The plants are vigorous, about two feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, growing from three to four inches in length, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green.

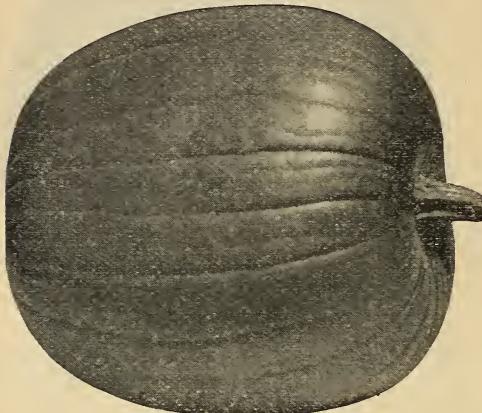


RUBY KING—Very large and attractive. The plants are about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers.

All varieties of Peppers not otherwise quoted: Pkt., 10c; oz., 50c; 2 oz., 90c; 1/4 lb., \$1.50.

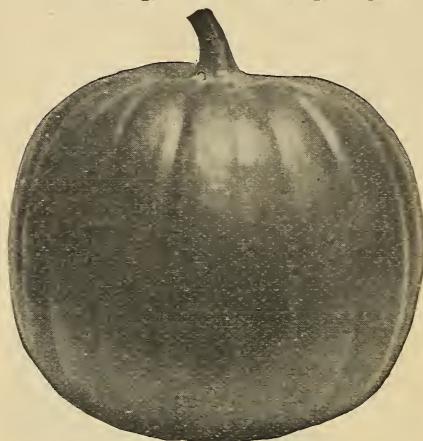
Pumpkins

CULTURE—Sow in good soil, when the ground has become warm, in hills eight or ten feet apart each way, or in fields of corn about every fourth hill.



Connecticut Field

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies.



Early Sugar

SUGAR—This variety is small, but of most excellent quality for pies. Fruits deep orange, eight to ten inches in diameter, round or somewhat flattened and slightly ribbed. Flesh rich, deep yellow, fine grained and very sweet.

WINTER LUXURY—Smooth, rounded form, with thin, tender skin of a rich golden yellow, closely netted. The fruits grow to good size and are very attractive. The flesh is very thick, sweet, fine-flavored, and excellent for pies. The vines make a vigorous growth and the fruit keeps well.

All pumpkins not otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$4.25; 10 lbs., \$7.50.

MAMMOTH PRIZE—The largest pumpkin grown; has attained a weight of 235 pounds. If you wish to see just how large a pumpkin can grow, try the Mammoth Prize. The quality is

excellent. Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 40c; 1/2 lb., 75c; 1 lb., \$1.25; at purchaser's expense: 5 lbs., \$5.00; 10 lbs., \$9.00.

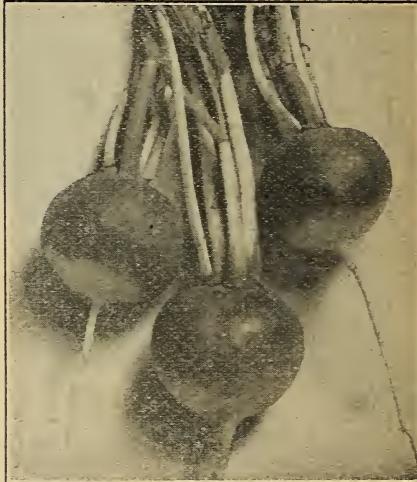
Radishes

CULTURE—For open ground culture sow in rich, sandy soil as soon in the spring as it is fit to work, in drills 12 to 18 inches apart and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots.

Turnip-Rooted, Early

CRIMSON GIANT—The largest early scarlet turnip-shaped radish. A very early radish, double the size of any of the other early turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp and juicy, and of the mildest flavor. Excellent for both forcing and open ground.

SCARLET GLOBE—Similar in form to the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender, top small, well adapted for growing in frames.



Scarlet White Tipped

SCARLET, WHITE TIPPED—The favorite variety for outdoor cultivation; medium size, uniform shape; color bright scarlet, with white tip, which makes it most attractive. It grows quickly; flesh white, crisp and of the best quality.

The three foregoing varieties: Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$3.75; 10 lbs., \$6.00.

Olive Shaped, Medium Early

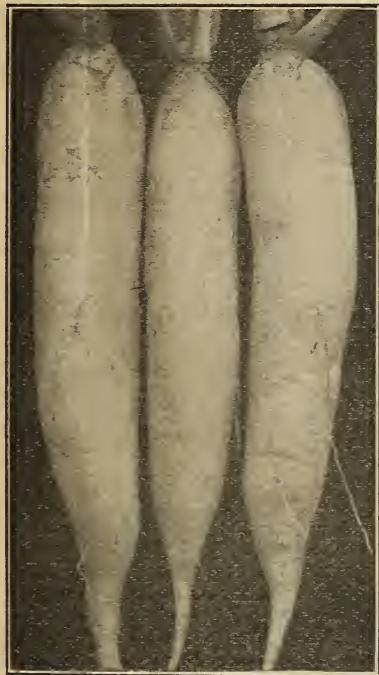
FRENCH BREAKFAST, OR HALF-LONG WHITE TIPPED—Medium size, of quick growth crisp and tender; terminates more abruptly than the Half-Long Scarlet, lower end of tap root white. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$3.75; 10 lbs., \$6.00.

Long, Late

CHARTIER, IMPROVED—Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth, it is soon ready for the

table, remaining crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

ICICLE, WHITE—The finest of the pure white varieties. They are long and slender and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains a large size, thus remaining in condition for use for considerable time. Roots grow four inches in length and half an inch in diameter; they retain their crispness and fresh mild flavor until fully six inches long and an inch in diameter.



White Icicle

LONG SCARLET, RED—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild.

Chartier, Icicle and Long Scarlet. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$3.75; 10 lbs., \$6.00.

Winter

BLACK SPANISH, LONG—Very hardy and good for winter use. Will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy.

CHINA ROSE—One of the best fall and winter varieties. Half-long shape; upper part bright crimson, shading to white. Flesh white, firm, tender and of superior quality.

CALIFORNIA MAMMOTH, OR WHITE CHINA—Very large and cylindrical, terminating abruptly with little tap-root; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

All varieties of winter radishes: Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$3.75; 10 lbs., \$6.00.

Rhubarb

CULTURE—Sow in drills an inch deep, and thin out the plants to six inches apart. Transplant the young plants, setting them four to six feet apart each way. The stalks should not be plucked until the second year, and the plant never be allowed to exhaust itself by running to seed.

VICTORIA OR MAMMOTH—Very large; the finest cooking variety. Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 75c; 1/2 lb., \$1.25; 1 lb., \$2.25.

Salsify

Vegetable Oyster

CULTURE—Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring, as they deteriorate rapidly after growth commences.

MAMMOTH SANDWICH ISLAND—Of superior quality. Pure white. Very meaty and of fine flavor. Grows uniformly large. Pkt., 5c; oz., 30c; 2 oz., 50c; 1/4 lb., 90c; 1/2 lb., \$1.50; 1 lb., \$2.50.

Spinach

CULTURE—It is one of the most easily managed of all vegetables, requiring but little culture. For spring and summer use sow broadcast or in drills as early as possible. Then sow at intervals for successive crops. For very early spring use it is sometimes sown in August or September, protecting it slightly during the winter.

BLOOMSDALE SAVOY—The plant is of upright growth, with thick, glossy, dark green leaves which are crumpled or blistered like those of Savoy cabbage. It is quite hardy but will run to seed quickly as soon as warm weather comes.

DENMARK, KING OF—This new variety is undoubtedly the most valuable introduction of spinach in recent years. Although the plants are ready for use almost as soon as the medium early sorts they remain in good condition from a week to two weeks after all other varieties have gone to seed. The leaves are thick, stand well after cutting and are of good quality. We believe this variety will in a few years be one of the leading sorts as its distinctive qualities are sure to win favor for it from both the home and market gardener. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 35c; 1/2 lb., 50c; 1 lb., 75c.



Long Standing

LONG STANDING—An improved variety slow going to seed, and perhaps the best for general use.

NEW ZEALAND—Unlike the common spinach in type in that it thrives during hot weather and in any soil, rich or poor. The plant becomes very large and spreading. The leaves are comparatively small, broad and pointed. Plant three or four seeds in hills two feet apart each way. Pick the leaves from the stem, cooking these and you will have delicious greens all summer. It is tender and will not withstand frosts. Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 60c; 1 lb., \$1.00.

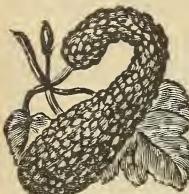
THICK LEAVED, IMPROVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners.

VICTORIA—The plants are fit for use early and remain in good marketable condition longer than some other kinds. The leaves are very thick and juicy and when prepared properly, develop a delightfully distinct, mild flavor.

All varieties of Spinach unless otherwise quoted: Pkt., 5c; oz., 10c; 2 oz., 15c; $\frac{1}{4}$ lb., 25c; $\frac{1}{2}$ lb., 40c; 1 lb., 65c; at purchaser's expense: 5 lbs., \$2.50; 10 lbs., \$4.00.

Squash

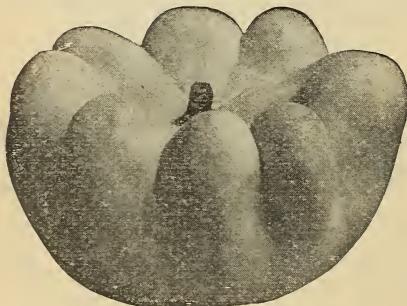
CULTURE—Delay sowing until the soil has become warm. The general principles of culture are the same as those given for cucumbers and melons. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill.



Summer Crookneck

Summer

CROOKNECK, EARLY YELLOW—An early prolific kind having a solid curved neck; the skin is yellow, thin, hard and very warty, flesh tender and of good quality.



Bush Scallop

BUSH SCALLOP, EARLY WHITE—This is the well known, very early, somewhat flattened scalloped bush squash. The color is creamy white with comparatively smooth surface. The vines are vigorous and very productive. This variety is also known as Patty Pan or Cymling.

ENGLISH VEGETABLE MARROW—This is one of the very best summer varieties. Creamy white skin with pure white flesh, oblong in shape, usually measuring from ten to fifteen inches in length by from four to six inches in thickness.

The four summer varieties: Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c. $\frac{1}{2}$ lb., 75c; 1 lb., \$1.25.

Winter



Banana

BANANA—Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. A good keeper.

CHILI MAMMOTH—Attains an enormous size, often reaching a weight of 200 pounds, and not infrequently weighs 300 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes. Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c; $\frac{1}{2}$ lb., \$1.00; lb., \$1.75.

DELICIOUS—Delicious is a fall and winter variety. Medium size. The fruit is moderately hard, usually dark green, but sometimes lighter in color and mottled, and are without any hard shell. The flesh is thick, very fine grained and bright yellow in color. Pkt., 5c; oz., 20c; 2 oz., 35c; $\frac{1}{4}$ lb., 60c; $\frac{1}{2}$ lb., \$1.00; lb., \$1.75.



Warty Hubbard

HUBBARD, CHICAGO WARTY—One of the best of the winter squashes. The vines are vigorous and very productive. The fruit is large, heavy and warted, with a very hard shell. The skin is uniformly dark bronze green. The flesh is bright orange-yellow, fine grained, thick, dry and richly flavored. This squash can be kept in good condition until spring.

HUBBARD, SMOOTH—This is in all respects very much like the Warty Hubbard described above. It is of the same color and high quality, but is not warted and its shell is not quite as hard.

HUBBARD GOLDEN—They are wonderfully long keepers and can be held over in good condition for spring use. The shell is moderately warted, hard, strong and of a beautiful orange-red color, except for a bit of olive-green on the blossom end. The flesh is deep orange, dry and richly flavored.

All varieties of winter squash not otherwise quoted: Pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 75c; 1 lb., \$1.25.

Tomatoes

CULTURE—Sow early in hotbeds and as soon as they have four leaves transplant into shallow boxes. Harden off and set out as soon as danger of frost is over.

To insure best results in respect to early ripening train up and trim the vines. When the plants have been properly started and are six to ten inches high they will begin to throw out branches. Select the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches which, as they appear, can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous and as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake. Fruit will set to almost any height desired if all side branches are kept trimmed off at intervals of a week.

BONNIE BEST—A week later than Earliana, but with larger, smoother and sweeter fruits and also surpassing same in productiveness, as the vines bear continuously throughout the season. The fruits are very large, handsome, very solid and deep through. Of bright scarlet color, ripen right up to the stem without any cracks or green core. Flesh thick, with comparatively few seeds and of sweet flavor. A good shipper. Bright red, smooth, medium sized, solid and very prolific. Pkt., 5c; oz., 40c; 2 oz., 75c; 1/4 lb., \$1.25; 1/2 lb., \$2.00; 1 lb., \$3.50.

CHALK'S EARLY JEWEL—The large, hand-some fruits are very solid and deep through, being almost round or ball shaped. Color is brightest scarlet, ripening right up to the stem without any cracks. The foliage is rather sparse and open, admitting the sunlight to the center of each plant, so that all the fruit is thoroughly ripened. Pkt., 5c; oz., 40c; 2 oz., 75c; 1/4 lb., \$1.25; 1/2 lb., \$2.00; 1 lb., \$3.50.

EARLIANA, SPARKS'—The earliest large and smooth tomato. The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer, continuing until frost. Sparks' Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre, while other varieties yield from 75 to 100 pounds to the acre. Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; 1 lb., \$3.00.

JOHN BAER—An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are most attractive in color. They are nearly round, smooth, firm and of excellent quality. It is one of the very earliest to ripen and it continues to furnish marketable fruits much longer than other very early varieties. Pkt., 5c; oz., 40c; 2 oz., 75c; 1/4 lb., \$1.25; 1/2 lb., \$2.00; 1 lb., \$3.50.

MARGLOBE—This new main crop or mid-season is claimed to be a most resistant variety and was introduced by the U. S. Dept. of Agriculture. A scarlet fruited variety of medium size, smooth, solid and deep from stem to blossom, vines making medium to heavy growth, fruit setting in clusters from 5 to 7 and growing from 6 to 8 ounces. It is a cross between the Marvel and Globe and seems to have retained the best characteristics of both. The flavor is midway between the acid and non-acid sorts. Pkt., 10c; oz., 50c; 2 oz., 90c; 1/4 lb., \$1.60; 1/2 lb., \$3.00; 1 lb., \$5.50.

STONE—Fine for main crop; very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best. Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; 1 lb., \$3.00.

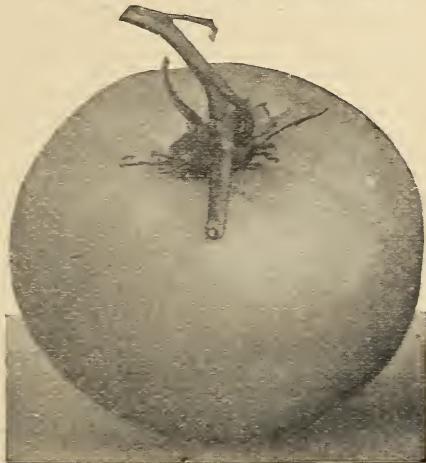
Small Varieties

GROUND CHERRY OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving.

YELLOW PEAR—The name denotes shape, also color. It is a rich, clear, yellow color and is one of the very best for preserving.

Ground Cherry and Yellow Pear. Pkt., 10c; oz., 60c; 2 oz., \$1.00; 1/4 lb., \$1.75.

THE BURBANK TOMATO



Mr. Burbank stated that he had spent more than a dozen years in "evolving" this new "creation" through careful selective plant breeding.

The following is Mr. Burbank's personal introductory claims:

THE EARLIEST TOMATO IN THE WORLD —THE "BURBANK"

"By far the earliest, smoothest, solidest, most productive, and best of all early tomatoes; resists wilt and other tomato diseases better than most others. The 'Burbank' is so much earlier than other tomatoes that from the seed of the tomatoes which ripened here in June, a second crop has been again and again grown and ripened the same season, something probably never before known."

"Fruit, bright crimson; thick, solid, heavy, smooth, firm, medium to large in size; superior quality, unusually heavy and continuous bearer throughout the season; best keeper and shipper. The 'Burbank' has one other unique and most remarkable quality which will be appreciated by those who like fresh sliced tomatoes for the table. Unlike other tomatoes, the skin peels freely from the rich, firm flesh." Pkt., 10c; oz., 60c; 2 oz., \$1.00; 1/4 lb., \$1.75; 1/2 lb., \$3.00; 1 lb., \$5.00.

Turnips

The value of Turnips and Ruta Bagas for feeding stock in fall and winter is not fully appreciated, as they are much liked by all kinds of stock and serve to keep them in good condition. We recommend that farmers increase their sowings largely, for we are sure the crop will prove remunerative for stock feeding as well as for table use.

CULTURE—For early use sow as soon as the ground can be worked, in drills 15 to 18 inches apart, and half an inch deep. For winter use, sow during July, as early sowings are unfit for winter use.

ABERDEEN, YELLOW—Round, medium size, light yellow; strained with purple on top; produces a large crop; flesh very firm, tender and sweet.

AMBER GLOBE—One of the best yellow fleshed varieties, grown usually for stock feeding. The roots are of large size and of globular shape. The skin is clear yellow except the top which is tinged with green. The flesh is light yellow, fine grained and sweet. This variety keeps well and is a good cropper.

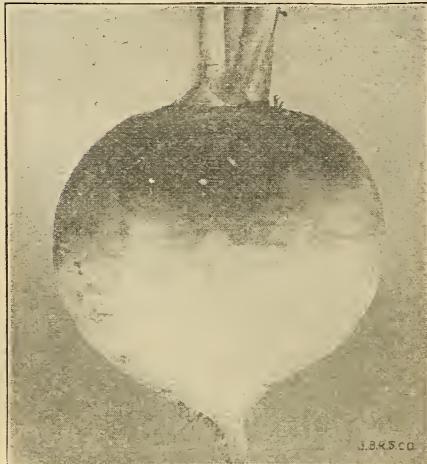
COWHORN—Sometimes called Long White is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground and is of very rapid growth; is delicate and well flavored. An immense yielder.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED—A leading white-fleshed variety, and one of the best, either for family, market garden or field crop; of medium size and produces a large crop. The flesh is firm, but tender, and of a superior rich, buttery flavor.

MILAN, WHITE—The earliest of all. The earliest turnip and the best quality in its class. A fine, snowy-white color. The skin is so smooth and neat as to seem polished. The foliage is short. Size medium, and the flesh is white, tender and smooth grained. Pkt. 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 75c; 1 lb., \$1.25.

POMERANIAN WHITE GLOBE, STRAPPED LEAVED—This is a free growing, rough leaved sort; perfect globe shape; skin white and smooth; leaves dark green.

PURPLE TOP, STRAPPED LEAVED, EARLY—One of the best and most universally grown; small, erect top, round, flat; purplish red above; white underneath; flesh firm, but very tender and sweet.



Purple Top White Globe

PURPLE TOP WHITE GLOBE—A perfect globe shape, with smooth, white skin; flesh pure white, firm and crisp. Purple above ground.

SNOWBALL—A perfectly globe-shaped, white skinned, turnip. The flesh is fine grained, firm and of very delicate flavor. Very early.

WHITE EGG—A quick growing egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground; the flesh is very sweet, firm and mild.

All varieties of turnips unless otherwise quoted: Pkt. 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 35c; 1/2 lb., 50c; 1 lb., 85c; at purchaser's expense: 5 lbs., \$3.50; 10 lbs., \$6.00.

Rutabagas OR SWEDES

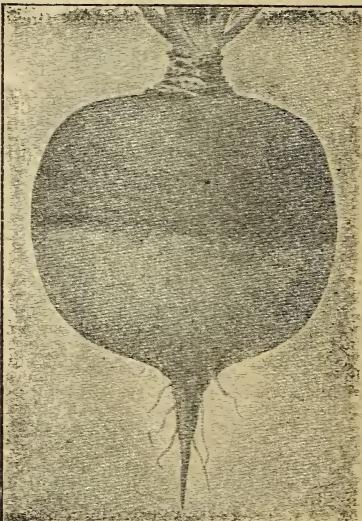
For feeding stock in fall and winter there is nothing superior to rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We desire to call special attention to an improved Bangholm. If you have not used this, give it a trial and we believe you will be more than pleased.

SWEET RUSSIAN OR WHITE—Hardy, easily grown, large and yields as much as the best yellow kinds; flesh free-grained and solid, but tender and well flavored; good for stock and desirable for the table.

YELLOW SWEDE OR RUTABAGA—Shape oblong, dull reddish color above ground, but yellow underneath; is harder than the common turnip and will keep till spring.

BANGHOLM PAJBJERG (Improved Danish Purple Top)—This variety was awarded a first-class certificate by the Danish government for heaviest yield, having given 49 tons per acre.

This purple top sort is excellent both in shape and quality. The roots are of large size, slightly



Danish Purple Top.

tankard shaped, with small neck and few or no side roots. The skin is yellow with purple top. The flesh is yellow, sweet and solid.

Bangholm and Sweet Russian: Pkt., 5c; oz., 15c; 2 oz., 25c. 1/4 lb., 35c; 1/2 lb., 60c; 1 lb., \$1.00; at purchaser's expense: 5 lbs., \$3.75; 10 lbs., \$6.50.

All varieties of Rutabagas. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 35c; 1/2 lb., 50c; 1 lb., 85c; at purchaser's expense: 5 lbs., \$3.50; 10 lbs., \$6.00.

Herbs

CARAWAY—Grown for seeds; used for flavoring. Pkt., 10c; oz., .25c.

CATNIP OR CATMINT—Leaves and young shoots for seasoning. Pkt., 15c; oz., 75c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 10c; oz., 25c.

DILL—Seeds have an aromatic odor and pungent taste. Pkt., 10c; oz., 20c; 2 oz., 30c; 1/4 lb., 45c; 1/2 lb., 65c; 1 lb., \$1.00.

MARJORAM—Sweet; leaves and shoots used for seasoning. Pkt., 10c; oz., 40c.

SAGE—One of the most extensively used herbs for seasoning; hardy perennial about fifteen to eighteen inches high. Plant very branching; flowers usually blue, sometimes pink or white; leaves grayish green, oval, wrinkled. Pkt., 10c; oz., 75c; 1/4 lb., \$2.50.

SUMMER SAVORY—Used for flavoring soups. Pkt., 10c; oz., 40c.

THYME—Leaves and young shoots used for seasoning; a tea is made from leaves, a remedy for headache. Pkt., 10c; oz., \$1.00.

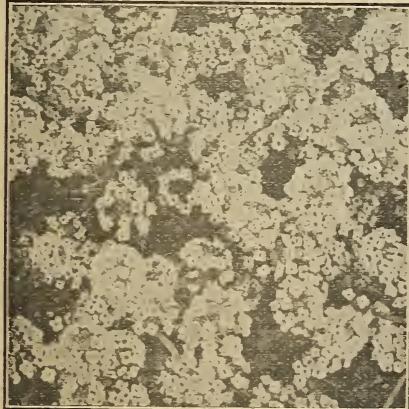
Flower Seeds

In describing our flower seeds the letter (A) denotes annual variety; (B) biennial, and (P) perennial.

AGERATUM—Floss Flower (A)—One of the most useful and profuse-blooming plants known. A beautiful, hardy annual of neat, bushy habit. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer. Mixed. Pkt., 5c.

MEXICANUM COERULEUM—Blue. Pkt. 10c.

MEXICANUM GRANDIFLORUM — White. Pkt., 10c.



Alyssum

ALYSSUM LITTLE GEM (A)—The plants are very dwarf and spreading; they grow only three to four inches high, and each plant completely covers a circular space 12 to 20 inches in diameter. They soon become one mass of white, remaining in full bloom from spring to fall. Pkt., 10c; 1/2 oz., 40c; oz., 60c.

SAXATILE (P) (Basket of Gold)—A hardy perennial variety bearing an abundance of yellow flowers in April and May about nine inches high. Pkt., 10c.

AMARANTHUS (A)—Brilliant-foliated annuals, growing from three to five feet high, bearing curious racemes of flowers. Useful in borders of tall plants or for the center of large beds. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

Mixed: Pkt., 5c; 1/2 oz., 60c; oz., \$1.00.

CAUDATUS (Love Lies Bleeding)—Blood red; drooping. Pkt., 5c; 1/2 oz., 30c; oz., 50c.

ANEMONE (Coronaria) (P) (Wind Flower)—

Among the earliest of spring flowers. They are about two inches across, with blue stamens, resembling the single poppy in shape and comes in several shades of color, and are profuse bloomers, gaining strength and beauty each year. Single, Mixed Pkt., 10c.

ARABIS OR ROCK CRESS (P)—This is one of the very earliest of all perennials to come into bloom. The blooms are produced in such great profusion that within a short time they appear like a mass of snow. They are excellent for the rock garden, where they thrive luxuriantly or for borders to other perennials. Pkt., 10c; 1/2 oz., 60c; oz., \$1.00.

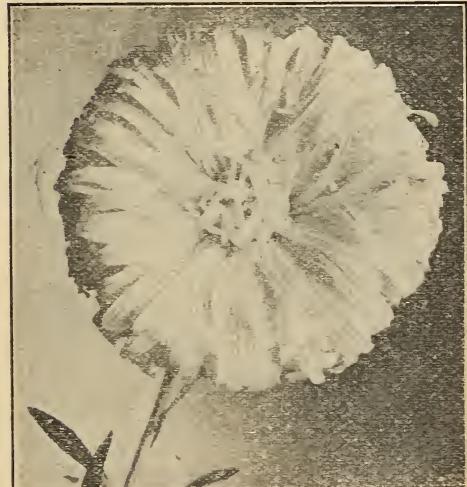
ASPARAGUS—This pretty foliage plant is quite well known under the name Asparagus Fern. It is extensively grown in pots, but is just as useful for cutting. An admirable house-plant for summer or winter. It grows freely and quickly and should be placed near a sunny window.

PLUMOSUS NANUS — A graceful foliage plant with fern-like leaves of a rich green color. The leaves are very finely divided and very useful for cutting. Excellent pot-plant. Pkt., 10c.

ASTERS

There is no more beautiful flower than the Aster, and there is none with a greater diversity of colors and sizes. These have been very much improved, so that today the largest and most beautiful resembles a fine Chrysanthemum more than it does an old-fashioned Aster.

The Aster is, perhaps, the most popular annual flower grown in this country, and justly so on account of its ease of culture, season of bloom, and lasting qualities.



Giant Comet

COMET, GIANT (A)—Plants are of upright habit, about two feet high, producing long stemmed flowers composed of wavy petals.

Flowers medium size, double and well formed. A good bedding variety. Peach Blossom, Dark Blue, White and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.



Improved Ostrich Feather

IMPROVED OSTRICH FEATHER (A)—The finest type of the Giant Comet, or Ostrich Feather type of Asters. Much larger than the Giant Comet, the petals longer and more curled and twisted, and produced in greater abundance. Borne on long stems, which makes them cut flowers par excellence. Plants about $2\frac{1}{2}$ feet high and robust in growth. Dark Blue, Shell Pink, Crimson, White, and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

IMPROVED CREGO (A) PLANTS—Robust; about two feet high. The large double flowers are well formed, of the Comet type, making a very fine variety for all purposes. Azure blue, crimson, lavender, pink, purple, white and mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.



Vicks Branching

VICKS BRANCHING, also known as American Branching—This class of Asters bloom

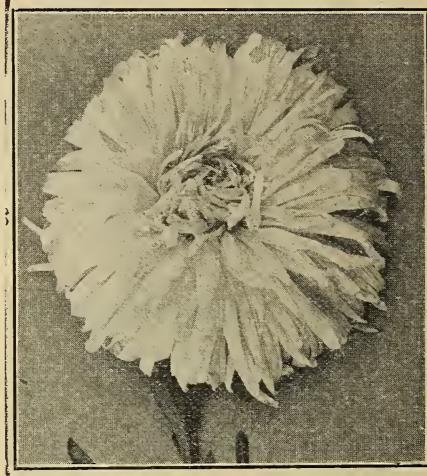
very profusely during the fall months, coming into bloom immediately after the Cregos.

Plants grow from $2\frac{1}{2}$ to 3 feet high; branch freely and of robust habit, bearing a large number of well formed, nearly round, double flowers of good size. Blue, Pink, Scarlet and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

SPECIAL ASTERS

EARLY BEAUTY—This Aster has recently been developed; is considered a very valuable introduction and has steadily increased in popularity. The Beauty Aster is divided into two classes, namely Early Beauty and Late Beauty. The Early Beauty, however, is not considered an early variety, but is so called to distinguish it from the Late Beauty. The Early Beauty comes into bloom at about the same time as Cregos and American Branching, while the Late Beauty is one of the very latest of Asters. The seed we are offering is of the Early Beauty type. Plants grow from 2 to 3 feet high and are unusually vigorous. The large double flowers measuring from four to five inches across, are borne on long, stout stems ranging from 18 to 24 inches.

Mixed: Pkt., 15c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.



California Giants

CALIFORNIA GIANTS (A)—After several years of hybridizing and selection, the grower reports that the California Giant Asters possess the robust habit, vigorous growth and length of stem found in the best types of other varieties and adds that their flowers are much larger than the Improved Crego, often measuring five to six inches in diameter, and that they are characterized by the Ostrich Feather type of flowers. Their size, beauty and length of stem make them very attractive and desirable. Peach, Deep Rose and Mixed. Pkt., 15c; $\frac{1}{2}$ oz., \$4.00; oz., \$7.00.

HEART OF FRANCE (A)—The best pure red Aster ever introduced. The flowers are large and full with never a trace of hollow center. The plants are of branching type and very robust habit. The stems are long and strong and have very few laterals. They retain their brilliancy and luster for a longer period than almost any other color. Medium early. Pkt., 10c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

SENSATION—This is the reddest of all Red Asters, the color being a rich garnet or ox-blood red, which glistens in the sunshine like a

live coal. The plants are of free-branching habit, about 18 inches high; the very double flowers, averaging $3\frac{1}{2}$ inches across, are borne freely on stems a foot long from early in August till the close of September. The intense color shows up well when cut, and makes a very brilliant bit of color in a bed or border. Pkt., 10c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS—Also called Corn Flower—(A)—A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. borne on tall, branching stems, with but little foliage. Striking and handsome.

Mixed, Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

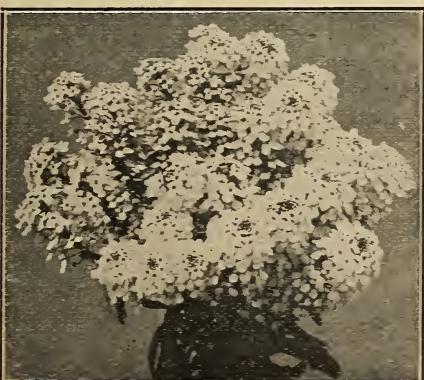
BALSAM OR LADY'S SLIPPER (A)—An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil; tender annuals; 2 feet. Start the seed indoors in April or sow out of doors in May. To grow fine specimens they should not be closer than 18 inches apart. Double Cameilla-Flowered—Mixed. The largest double variety. Pkt., 10c; Single Cameilla-Flowered. Mixed, Pkt., 10c.

BEGONIAS (P)—Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. Dwarf. Mixed, Pkt., 25c.

BLUE LACE FLOWER (A)—Grows into an upright plant of about two feet in height. Each branch ends in an umbel of light sky-blue flowers which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. Pkt., 20c.

CALENDULA (POT MARIGOLD) (A)—Very hardy annual, one foot high, blooming freely practically the whole year round. Is of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. A medicinal extract resembling arnica is made from the flowers. Double Mixed, Pkt., 5c; oz., 25c.

ORANGE BALL (A)—This is a very fine double calendula, a magnificent flower, growing to enormous size, and is outstanding because of its rich orange-yellow color. The flowers are well rounded and fully double to the center. They are made up of enormous broad substantial petals. The long-stemmed blooms are very fine for cutting. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.



Candytuft.

CANDYTUFT (A) (Iberis)—Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single

cruciform flowers in a wide range of colors. Considered indispensable for cutting and very effective in beds, masses or rockeries.

Empress (A). White. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c. Giant Mixed (A), Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

CALLIOPSIS (A)—A quick growing annual. The flowers are placed on graceful wavy stems and in color run through all the shades of red and yellow; foliage dainty; useful combined with other flowers. Tall double mixed. Tall, single. Mixed. Pkt., 5c; $\frac{1}{2}$ oz., 30c; oz., 50c.

CANNA FRENCH—Crozy's dwarf, mixed—(P)—Ornamental tropical-looking plants of easy culture; large and beautiful flowers. Hardy perennial. Pkt., 10c.

CANTERBURY BELLS (Campanula Calycanthema)

(Cup and Saucer)

(B) — Produces beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early summer. A hardy biennial $2\frac{1}{2}$ feet high, flowering the second season from seed. White, Blue, Pink. Pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.00; mixed, all colors, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.



CARNATION

The Carnation has always been one of the most esteemed of flowers, on account of their spicy fragrance, richness and diversity of color, great beauty, free-blooming and ease of culture. The several mixtures offered by us are among the very best obtainable. For early blooming sow under glass. Can be sown in the open garden. Half hardy.

MARGUERITE DOUBLE MIXED (P)—The most magnificent of all the Pink family and general favorite for their delicious fragrance and richness of color. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

GIANT MALMAISON (P)—An exceedingly fine mixture. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.

CHABAUDS EARLIEST FRENCH MIXED (P)—Produces double, sweet-scented flowers, in a great variety of colors and in great profusion. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.

CENTAUREAS

Centaureas embrace some foliage plants but are most generally known for their hardy flowering annuals which include some of our most graceful and showy garden flowers that have long been favorites for cutting. The tall slender straight or slightly branching plants with narrow leaves thrive well in common garden soil. They produce bright colored single and double heads of flowers on long graceful stems and some sorts are fragrant.

MOSCHATA ALBA ROYAL SWEET SULTAN (A)—This beautiful class is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very hot weather arrives. Mixed, Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

CANDIDISSIMA OR WHITE LEAVED DUSTY MILLER (A)—Silvery white; leaves broadly cut. Fine for bedding, vases, hanging baskets and pots; also extensively used for margins. As an edging to a bed of dark-leaved Cannas or Scarlet Sage these are particularly effective. Sow the seed early indoors, and transplant in May. Pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

CHILDSII, CHINESE WOOL FLOWER—(A)—A distinct form of the plumed Celosia, with beautiful, ball-shaped flower-heads of a purplish crimson color, somewhat resembling a ball of wool. It flowers profusely during summer and fall. Two to three feet tall. One of the finest fall-blooming annuals. Pkt., 15c.

CESLOIA (COCKSCOMB) (A)—Free blooming annuals, growing best in light soil not too rich. They make splendid border plants and are attractive for pot. Fine tall, mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

CHRYSANTHEMUMS—(A)—These outdoor "summer Chrysanthemums" are showy and effective for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots. Double Mixed, Pkt., 10c; Single Mixed, Pkt., 5c.

CLARKIA (A)—Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double mixed, pkt., 5c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

COLEUS (P)—Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, and the shades and colors are of remarkable beauty. Finest Hybrids Mixed, extra choice, pkt., 25c.

COLUMBINE OR AQUILEGIA (P)—A delightful hardy perennial growing about two feet high, and splendid for permanent beds and borders. Thrives in partial shade and under the spray of a fountain or other moist location. Bears exquisite blossoms of clear blue, white, rose, purple and striped. Single mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00. Double mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

COREOPSIS (LANCEOLATA) (P)—Blooms the first year; flower rich yellow, single; very fine for cutting. Pkt., 10c.



Cosmos

COSMOS—(A)—Very effective for autumn flowering in broad masses or backgrounds. A hardy and rapid grower, forming bush-like plants with feathery green foliage, four feet high, covered with large flowers somewhat resembling the single dahlia. They are gracefully poised on long stems and very useful for decorative purposes. Extra early, mixed, single, pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c. Extra early, mixed, double, pkt., 20c; $\frac{1}{2}$ oz., \$1.75; oz., \$3.00.

DAHLIA (P)—But few people know Dahlias can be raised from seed and will bloom the first year. Plant in a shallow box or pan early in March or April, transplant carefully as their growth demands. When all danger from frost is over transplant to bed or border in the garden. As the tubers are not hardy it is necessary to dig them up each fall to protect from frost. Double Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50. Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., 1.25. Double Cactus, Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.50; oz., \$4.50.

DAISIES

AFRICAN DAISY (Dimorphotheca Aurantiaca (A))—A rare and extremely showy annual from South Africa which has become a great favorite on account of its very easy culture and beautifully colored flowers. Its Marguerite-like blossoms, produced in great profusion, are $2\frac{1}{2}$ to $3\frac{1}{4}$ inches in diameter. These are a unique glossy rich orange gold, which brilliant coloring is rendered more conspicuous by the dark disk surrounding the black zone. Pkt., 10c.

BELLIS, DOUBLE ENGLISH DAISY (P)—A favorite perennial which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring till August. For best results, new plants should be raised from seed each year. Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.



Shasta Daisy

SHASTA (P)—A most remarkable new flower, originated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted. Pkt., 15c; 1/2 oz., 75c; oz., \$1.25.

Everlasting

ACROCLINUM (A)—A very pretty half hardy annual, producing white and rose colored, double daisy-like flowers, about one-half inch in diameter. Each flower head is borne singly on a very long stem; leaves small, narrow, alternate. Grows about 15 inches high, double. Mixed, Pkt., 10c.

HELICHRYSUM (A)—Sometimes called the Straw Flower. Large, full, double daisy-like flower heads with prominent centers and stiff overlapping scales, produced in various shades of bright yellow and scarlet on stems of good length. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding. Sow early in spring; thin to one foot apart each way. Hardy, 2 to 2 1/2 feet high. Monstrosum, fl. pl., finest mixed. Largest double flowers, Pkt., 10c; 1/2 oz., 50c; oz., 75c.

STATICE (Sea Lavender) (P)—One of the most highly prized amongst the everlasting flowers, as it consists of masses of small bright flowers on large sprays, which when dried make fine winter bouquets. Mixed. Pkt., 10c; 1/2 oz., 50c; oz., 75c.

FORGET-ME-NOT (MYOSOTIS) (P)—A modest little flower. A pretty trailer with blue flowers. Pkt., 10c; 1/2 oz., 65c; oz., \$1.00.

FOUR O'CLOCK (MIRABILIS) (A)—Is also called Marvel of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the afternoon, hence their name. Choice mixed, Pkt., 5c; 1/2 oz., 25c; oz., 40c.

FOXGLOVE (Digitalis) (P)—Handsome, ornamental, hardy plants of stately growth. The seed, though small, germinates readily and the plants succeed well even in poor soil if given a half shady location. The spikes are often

three to five feet long and thickly strung with scores of thimble-shaped flowers. Mixed colors, Pkt., 10c; 1/2 oz., 50c; oz., 75c.

GAILLARDIA (BLANKET-FLOWER) (A)—Splendid showy annuals, remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom from early summer till November; excellent for beds, borders, or for cutting; should be sown where they are to bloom; height 2 1/2 feet. Fine Mixed Double, Pkt., 10c; 1/2 oz., 50c; oz., 75c; Perennial, Single, Mixed, Pkt., 10c; 1/2 oz., 65c; oz., \$1.00.

GERANIUM (P)—Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. This is the best way to secure Geraniums, as they will frequently reward the cultivator with charming new varieties. In fact, propagation by seed is the only way to obtain new varieties. Very tender and must be protected from the slightest frost. Zonal Mixed, Pkt., 20c; 1/2 oz., \$1.75; oz., \$3.00.

GEUM—Mrs. Bradshaw. A pretty perennial of low growth sending up flower-stems two feet long. The flowers are double and measure two inches in diameter. They are a most intense orange-scarlet. They do best in a moderately dry soil and in an airy and sunny location. Pkt., 15c.

GODETIA (A)—An attractive, hardy annual deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors, one and one-half feet. Mixed, Pkt., 5c; 1/2 oz., 50c; oz., 75c.

GYPSOPHILA OR BABY'S BREATH (A)—A pretty, free-flowering plant. Fine for bouquets. Pkt., 5c; 1/2 oz., 20c; oz., 30c. Perennial, Pkt., 10c; 1/2 oz., 50c; oz., 75c.

HELIOTROPE (P)
—A half-hardy perennial, growing about 18 inches high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation. Can also be grown against a wall and made to assume the character of a climber. Finest mixed, Pkt., 15c; 1/2 oz., \$1.25; oz., \$2.00.

HOLLYHOCKS (P)
Chater's Superb Double. Finest Mixed—These fine, old-fashioned perennials are most striking when planted in groups of long rows; their variety of color is wonderful. When plants are once obtained they last for several seasons. Double mixed, Pkt., 10c; 1/2 oz., 75c; oz., \$1.25.

ICE PLANT—Tender Annual Trailer—A pretty little trailer for baskets or massing; 6 inches high. Leaves covered with crystalline drops. Flowers white or pink. Valued for its remarkable foliage. Pkt., 10c.

JOB'S TEARS—Coix Lachryma—An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. Pkt., 5c.

KOCHIA CHILDSII (Mexican Fire Bush, or Summer Cypress) (A)—A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clean, bright, green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Sow outdoors early in spring, covering one-fourth inch deep; about two and one-half feet high. Pkt., 5c; 1/2 oz., 25c; oz., 40c.



Heliotrope

LARKSPUR (A) (Delphinium)—The Larkspur with its long clustered spikes of beautiful irregular flowers, often with long spurs is especially valuable for its shades of blue. The annual forms are very desirable for bedding and the perennials are strikingly effective as a background for borders and for planting among shrubbery. Seed of annual varieties may be sown outdoors early in spring. For earlier blooming start very early indoors or sow in fall. Thin one to one and one-half feet apart. The perennial sorts are sown in fall or early spring.

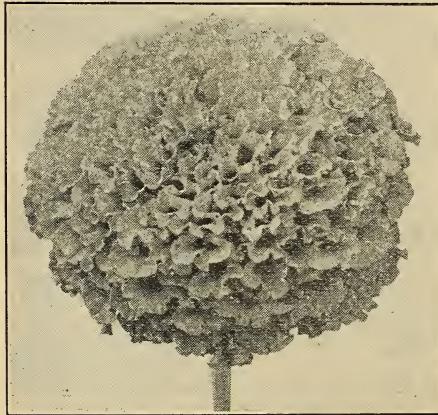
ANNUALS—Double Dwarf, Rocket, mixed, Double Tall Rocket mixed, pkt., 5c; $\frac{1}{2}$ oz., 40c; oz., 65c. Perennial, mixed, large flowering, dark blue, pkt., 10c; $\frac{1}{2}$ oz., \$1.75; oz., \$3.00.

LINUM (Scarlet Flax) (A)—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; one foot. Pkt., 5c.

LOBELIA (A)—A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers.

Dwarf single, mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. Single Tall Blue Speciosa, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75; Single Dwarf Blue, pkt., 20c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.00.

MARIGOLD



Tagetes (A)—The African and French Marigolds are great favorites; free-flowering, hardy, of easy culture. The African varieties grow two to three feet tall, bear large yellow or orange-colored flowers, and are adapted for large beds or mixed borders. The French varieties are dwarfer in growth, with beautiful striped flowers three to four inches in diameter, and are better suited for bedding and pot culture. They succeed best in light soil with full exposure to the sun. Either variety is splendid for cut flowers.

African

LEMON BALL—Extra large, round, double flowers of a clear canary-yellow. Large round plants with attractive dark green foliage. The flowers are borne profusely and are most attractive either in beds or borders. The beautiful flowers combine large size with good form and beautiful coloring. A continuous bloomer from July until frost. Tall, Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

ORANGE BALL—Enormous double flowers of intense rich orange. The flowers are produced in great profusion from July until cut down by frost. Tall, pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

DWARF DOUBLE—About one and one-half feet high; large flowers; desirable for shrubbery or mixed border. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 65c.

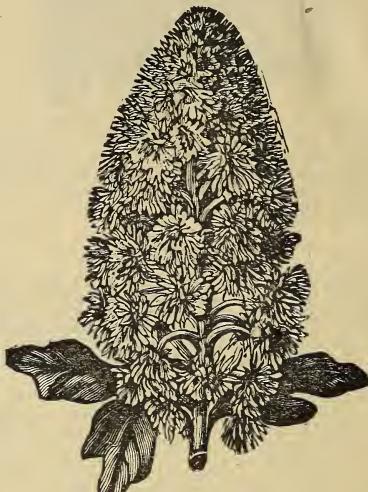
TALL DOUBLE—About two feet high with flowers three to four inches in diameter, in shades of yellow and orange. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 65c.

French

DWARF DOUBLE—One foot high with large flowers. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 65c.

TALL DOUBLE—One and one-half feet high with large double flowers. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 65c.

LEGION OF HONOR—A lovely variety with single flowers borne profusely and continuously. The blooms are rich golden yellow, marked with a large spot of velvety crimson at the base of each petal. Of compact growth. 9 inch in height. Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 65c.



Mignonette

A well-known hardy annual producing dense spikes of exceeding fragrant flowers and much esteemed for their delightful fragrance, if sown in intervals, it will bloom until frost.

Allan's Defiance—Spikes grow to a remarkable size and delicious fragrance. The individual florets are of immense size, forming a graceful as well as compact spike. Of extraordinary keeping qualities, retaining their grace and fragrance until every bud opens. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

GOLDEN MACHET—A compact growing variety with medium long thick spikes of yellow flowers. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

MOSCHATUS (Musk Plant) (P)—Small yellow flowers, fragrant foliage; leaves musk scented; fine for hanging baskets. Pkt., 10c.

NASTURTIUM

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a mod-

erately good soil in a well-drained, sunny position, and from within a few weeks from the time they are grown until hard frost comes there is an endless profusion of their gorgeous blossoms. No annual will produce such a lavish profusion of flowers for so long a time, with the same small outlay of time and labor. The maximum of bloom is produced in light or sandy soils and seldom diminishes through the hot weather.

Dwarf

FINEST MIXED—This mixture is selected from the very finest varieties and when planted in beds or masses will present a most brilliant and pleasing effect. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25.

Tall

FINEST MIXED—This is a very superior mixture and consists of a number of the best-known varieties and will, without doubt prove highly satisfactory. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; 1/2 lb., 75c; lb., \$1.25.

The tall Nasturtiums are particularly fine for massive beds or broad borders, or may be easily made to climb low fences or wire netting. They are particularly showy when planted at the top of a steep slope and allowed to run down the bank.

NEMOPHILA — BABY EYES — LOVE-IN-THE GROVE (A)—A charming little annual plant, thriving especially well in moist, shady places, but quite at home in the open garden. The pretty, bell-shaped flowers are freely produced all summer. Plants eight inches high; of neat, bushy habit. Mixed, pkt., 5c.

NICOTIANA — AFFINIS (Tuberose-Flowered Tobacco) (A)—Delightfully sweet-scented, tubular flowers, blooming continually; annual, two to three feet high. Mixed, pkt., 10c.

NIGELIA—LOVE-IN-A-MIST or DEVIL-IN-THE-BUSH — DAMASCENA (A)—A compact, free-flowering plant with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual, blue and white mixed. Height one foot. Pkt., 10c.

PANSIES

PANSY — (VIOLA ARICOLOR) (P)—A half hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation. It thrives best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring.

FAUST—King of the Blacks—Almost coal black. The darkest Pansy grown. Pkt., 15c. 1/2 oz., \$1.50; oz., \$2.50.

GOLDEN QUEEN—The petals are pure golden yellow. The flowers are borne profusely and are most attractive either in beds or borders. The beautiful flowers combine large size with good form and beautiful coloring. The best yellow yet introduced. Pkt., 15c; 1/2 oz., \$1.50; oz., \$2.50.

TRIMARDEAU CANDIDISSIMA—Snow white. Pkt., 20c; 1/2 oz., \$1.75; oz., \$3.00.

TRIMARDEAU GIANT MIXED—Flowers of richest and most varied shades. Plants hardy and vigorous. A very fine mixture. Pkt., 10c; 1/2 oz., \$1.50; oz., \$2.50.

MASTODON—Mixed—These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them. Named varie-



Mastodon

ties and special strains are grown separately and the seed collected by hand and carefully blended into what we believe to be the finest mixture ever offered. Pkt., 25c; 1/2 oz., \$2.50; oz., \$4.00.

MASTERPIECE—Frilled, Mixed—A splendid mixture of various shapes and markings. The blossoms are perfectly round and are blotched at the base. Pkt., 20c; 1/2 oz., \$2.50; oz., \$4.00.

PINKS



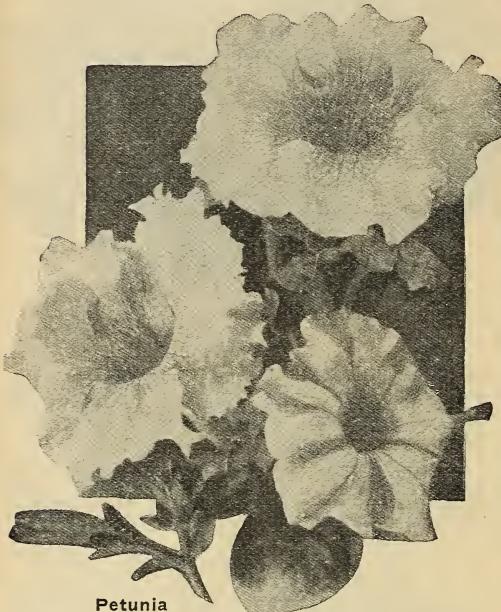
DIANTHUS—The Pinks are old-fashioned favorites and have much variation in color. Both the single and double Pinks are well adapted for bedding and borders, and are suitable also for cutting as the stems are of good length and the brilliantly colored flowers contrast vividly with the rather narrow bright light green leaves. Seed may be sown in the open ground in spring after danger of frost is past, in the place where the plants are wanted to bloom. Use well pulverized soil; cover the

seed with one-fourth inch of fine soil firmly pressed down. Plants compact, bushy, usually about one foot high.

Single or double. Pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

PLUMARIUS—(Grass Pink) (B)—A beautiful hardy pink. Fringed-edged flowers. Sweet scented. Single mixed. Pkt. 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

PETUNIA



Petunia

PETUNIA (A)—Is without a peer among annuals for effective summer bedding or indoor culture. It is of easy culture, early to bloom and continues throughout the summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants. Provide good soil and a sunny location.

Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. Single Fancy Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

DOUBLE FRINGED PETUNIAS—Clover Leaf mixture of double fringed petunias is carefully selected from the best large flowering double fringed plants. It is well understood that the flowers are not all double, but those that come single will be fine large blooms. Mixed, pkt., 30c.

PHLOX

PHLOX DRUMMONDI (A)—Of all summer-flowering annuals, the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. Grandiflora Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. Perennial Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.25; oz., \$4.25.



Phlox Drummondii

STAR (A)—This variety is very popular, perhaps because of its bright and cheerful color. The flowers are rich rose with a distinct white star-like center surrounding a narrow ring of deep, rich red. It is a magnificent flower, well rounded, and always very large. The flowers are star-shaped and are borne in big heads throughout summer and fall. Pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

POPPIES

Probably no class of plants enjoys greater popularity and is more widely grown than the annual poppies; this is especially true of the single varieties. They are easily grown, and should be sown in beds or wild patches, in early spring, where they will grow high above the grasses on tall, graceful stems.

California

CARMINE KING (A)—Beautiful carmine rose color, both on the interior and exterior of the flower. Very handsome. Single. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

GOLDEN WEST (A) (Eschscholtzia)—Commonly known as California poppy. This is the best known of this species of poppies and has been a great favorite wherever sown. Color, rich, rare tints of yellow and orange; very beautiful. Single. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c.

MIXED (A)—This is a special mixture and comprises many of the best named varieties and embraces all colors and shades of the Eschscholtzia California type of poppies. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

Miscellaneous

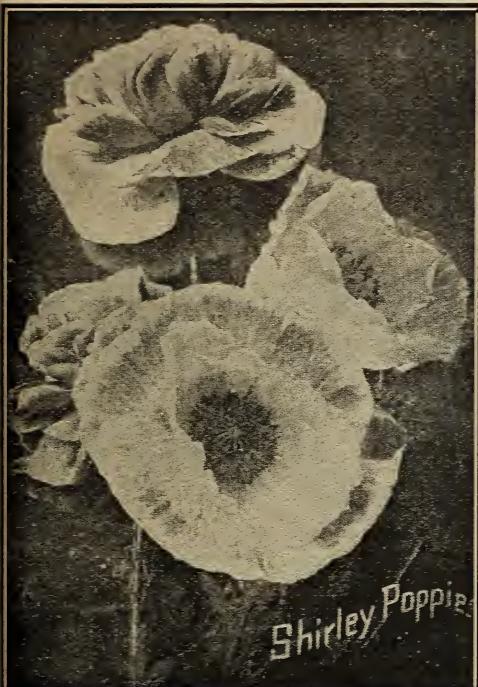
FLANDERS FIELD—Vivid scarlet red. This flower has in the minds of men been associated for over two hundred years with the battlefields of Flanders. It is said to be the first official flower of the American Legion. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 90c.

ICELAND (P)—A graceful, delicate variety, the petals resembling crumpled tissue paper. The plant is low-growing, but the stems are long and slender. Single. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

ORIENTAL (P)—One of the showiest of the perennials, with enormous flowers. The leaf is long and deeply cut and clothed with white,

bristly hair. Beautiful among shrubs, roses and other perennials. Single. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

PAEONY FLOWERED (A)—Large, showy flowers, closely resembling a small Paeony. Profuse bloomer. Double mixed. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.



SHIRLEY IMPROVED (A)—The most beautiful type of poppies, having soft, hairy foliage, and a variety of blossoms in white, pink, lavender, purple, red and scarlet. Free blooming and fine for bedding or tall border. Single. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

PORTULACA OR ROSE MOSS (A)—Brilliant, dwarf annuals, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For low beds and masses of color, from spring until frost, they are indispensable.

Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00. Double Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

PRIMROSE

PRIMULA VULGARIS (P)—The beautiful wild English Primrose. It grows best in shady places. The seed is very slow in germinating and may stay in the ground a year, but once established, the plants are quite hardy. The oval oblong leaves are all from the root, the plants forming dense tufts. The flowers are salver-shaped, with five lobes of reversed heart shape, clear yellow with touch of orange at base. Six inches in height. Pkt., 20c.

PRIMROSE—SINENSIS OR CHINESE (P)—The beautiful, large fringed flowers stand in pyramids arranged on short flower stems. Blossoms of every shade of color, from pure white to deep crimson, and even deep blue; especially fine for winter and spring flowers in the house; easily grown; free bloomers. The finest single mixed. Pkt., 25c.

PYRETHRUM—A fine hardy plant with large daisy-like flowers. The flowers are excellent for cutting. Blooms during May and June. A free bloomer and flowers most excellent for cutting. Foliage and flowers both very ornamental. Large flowering Double and Semi-Double and Single Mixed. Pkt., 20c.

RICINUS, OR CASTOR OIL BEAN (A)—Ornamental plants of steady growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds. Finest Mixed, pkt., 5c; oz., 25c.



Salpiglossis (Velvet Flower)

SALPIGLOSSIS (A)—The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range for colors. Finest Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00.

SALVIA (Flowering Sage) (A)—The large, brilliant scarlet flowers are in very striking contrast with the rich, dark green background of dense foliage. This variety is most generally used in parks and on extensive lawns, as it is more vigorous than the dwarf varieties. One of the most distinct and effective bedding plants. Two and one-half to three feet high. Pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

SCABIOSA, OR MOURNING BRIDE (A)—A free-flowering annual; colors, white, carmine, lilac, maroon, etc. Very effective for garden decoration and valuable for cutting. Dwarf or tall double mixed. Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

SCHIZANTHUS (Butterfly Flower) (A)—Hardy, growing one and one-half to two feet high and covered with bright, showy, butterfly-like blossoms. Large flowering. Mixed pkt., 10c.

SNAPDRAGON

SNAPDRAGON, OR ANTIRRINUM (P)—One of the most useful and showy plants. Of almost every shade and color. They have recently been much improved and are now really magnificent. Hardy perennial. Tall.

Finest Mixed, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c; White or yellow, pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

DELICATA—A very fine flowering Pink, tall. Pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

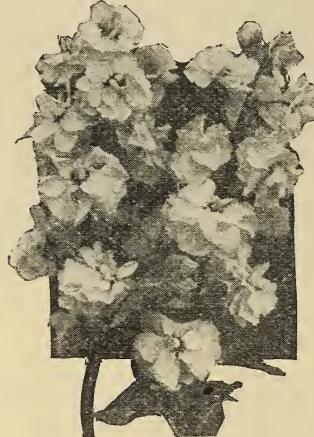
GARNET—A deep velvety red, very handsome, tall. Pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

SNOW IN SUMMER (*Cerastium Tomentosum*) (A)—A very pretty dwarf white leaved edging plant, bearing small white flowers suitable for the rockery or for dry sunny spots or steep banks. Pkt. 15c.

SNOW ON THE MOUNTAIN (*Euphorbia Variegata*) (A)—Strong growing, suitable for beds or borders. Produces an abundance of small white flowers. The foliage is exceedingly ornamental, being veined and marked with broad white bands on rich green ground. Pkt. 10c.

STOCKS—Sometimes called Gilliflower. Considered almost indispensable where a fine display of flowers is wanted and particularly valued for edgings, bedding and pot culture. They produce dense spikes of very fragrant and beautiful rosette-like double flowers. Are suitable for cutting, being produced on stems of good length.

The Stock is one of the most popular annuals; for brilliancy and diversity of color, fragrance, profusion and duration of bloom.



Stock

MAMMOTH EARLY BRANCHING NICE (A)—This variety is now recognized as the most valuable of all stocks for cutting purposes and the most popular for general use. They come into flower almost as early as the Dwarf Ten Week varieties and the flowers are much larger. Because of their branching habit they produce a great many blooms, hence has become very popular not only with the florists but also for the home flower bed. For fragrance, brilliancy, diversity of color, profusion and duration of bloom they are unsurpassed. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.

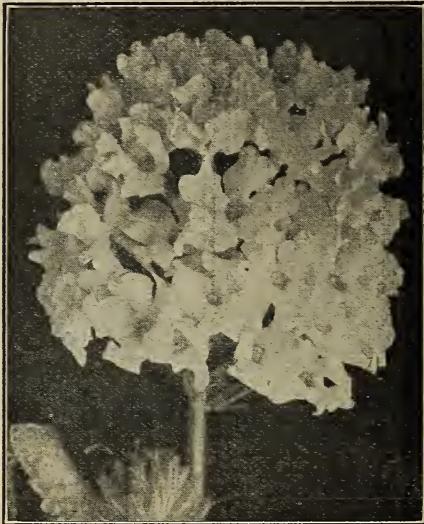
DRESDEN PERPETUAL OR BRANCHING (P)—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late autumn. Very fragrant. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.

SUNFLOWER (*Helianthus*) (Double *Crysanthemum Flowering*) (A)—This pretty sunflower grows to be about 3 feet high and has late in summer bright golden yellow flowers on stiff stem, fine for cutting. This is a pretty and refined flower, four inches across. Pkt., 5c; $\frac{1}{2}$ oz., 30c; oz., 50c.

SWEET ROCKET (*Hesperis*) (P)—Old-fashioned garden plant and among the most desirable of hardy flowers, also known as Dame's Rocket and Dame's Violet; grows from two to three feet high and bears spikes of showy white, lilac and purple fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border; mixed colors. Pkt., 5c.

SWEET WILLIAM (P)—A well-known, attractive free flowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. Mixed Double, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25. Mixed Single, pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

THUNBERGIA (Black-Eyed Susan) (A)—One of the best trailing plants for veranda boxes, vases, etc. Neat, compact growth. The pretty flowers, an inch in diameter, are white, buff or yellow, with black eye. Finest, Mixed, pkt., 10c.



Verbena

VERBENA (A)—Very few annuals will make such a gorgeous display during the summer months or furnish more flowers for cutting than the Verbena. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth. They flower in July and continue strong and healthy until destroyed by frost. Mammoth Extra Choice, Mixed, pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

VINCA (Periwinkle) (P)—These very attractive bushy plants with glossy green foliage produce in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders. If sown early under glass and transplanted in a warm, sheltered situation will bloom in summer and autumn and may be potted for the house before frost. Are in continuous bloom from setting out until frost and are entirely free from the attacks of insects. Tender perennial, blooming the first season; about 15 inches high. Mixed, pkt., 10c.

WALL FLOWER (P)—Produces spikes of beautiful, exceedingly fragrant flowers. Half-hardy perennial. Mixed, Single, large flowering. Pkt., 5c; $\frac{1}{2}$ oz., 35c; oz., 60c. Mixed, Double, pkt., 20c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.75.

GARDEN MIXTURE (A)—A garden is not complete without a bed of this mixture of flowering annuals. A package will sow a bed about two by ten feet, and if sown early in the spring will furnish continual bloom throughout the season. Annual. Pkt., 10c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00. Perennial. Pkt., 10c; oz., 30c; 2 oz., 50c; 1/4 lb., 80c; 1/2 lb., \$1.50; 1 lb., \$2.50.



Violets

VIOLETS (P)—Violet Odorata is the well-known English violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places. Very early bloomer. Sweet scented, very pretty and very popular and a beautiful blue. Pkt., 10c.

ZINNIAS

ZINNIAS (Elegans Grandiflora Double) (Youth and Old Age). (A)—Is one of the most brilliant and showy annuals, and has long been a general favorite. The seed can be sown early in the hotbed and transplanted, or sown later in the open ground. They come in flower early in the summer and keep on blooming until first frost. Mixed, pkt., 10c; 1/2 oz., 60c; oz., \$1.00.



Giant Dahlia Flowered

CRIMSON MONARCH—By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit.

GOLDEN STATE—An excellent color. Rich golden yellow, shading to orange as the flower ages. Blooms are large, of true Dahlia form, borne on long stems.

EXQUISITE—This is one of the most pleasing of this new collection of Giant Dahlia Flowered Zinnias as regards form and size. A striking self color of deep rose.

POLAR BEAR—A very large pure white; the very best white yet introduced in the form of Zinnias. Fine Dahlia form, large and handsome.

PURPLE PRINCE—A fine deep purple, large and well formed. Very beautiful.

The foregoing five Giant Dahlia Flowered Zinnias. Pkt., 25c; 1/2 oz., \$2.50; oz., \$4.50.

SPECIAL MIXTURE—This special mixture contains the very best of the Giant Dahlia Flowered varieties of Zinnias. Is well blended as it has been thoroughly rogued in the field for type and size of flowers. Pkt. 15c; 1/2 oz., \$1.25; oz., \$2.00.

SWEET PEAS

No garden is too small for a row of Sweet Peas, and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower.

CULTURE—Early in spring make a trench three to four inches deep in rich, mellow soil. Plant the seed in the bottom, covering at first one inch deep. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed in this, covering with more sand. When the plants are two inches high, cultivate and as they grow gradually fill up the trench. When the plants are about five inches high it is desirable to furnish some support for the vines to run upon. Water applied thoroughly once or twice a week, preferably early in the morning or in the evening is usually better than light sprinkling more frequently. The blooms should be picked before they form pods or the plants will soon stop flowering.

MIXED SPENCERS

If one is growing a quantity of Sweet Peas, straight varieties are certainly beautiful, but when a short row is grown we recommend sowing mixed seed. For this reason we are always very careful regarding our mixtures. In fact, they are just looked after in the same painstaking manner that our named varieties are.

OUR CLOVER MIXTURE is highly dependable, and with proper care should give very satisfactory results. Pkt., 10c; large package, 25c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; 1/2 lb., \$1.25; 1 lb., \$2.00.

STANDARD SPENCERS

All the following 20 varieties of choice Spencer Sweet Peas: Pkt., 10c; any 12, \$1.00; oz., 30c; 2 oz., 55c; 1/4 lb., \$1.00; 1/2 lb., \$1.50; lb. \$2.50.

Blue MRS. TOM JONES—Bright delphinium-blue. The flowers are very large and of great substance; beautifully waved, and invariably come four on a stem of great length. A first-class rich blue has long been wanted and now we have it in this charming and beautiful novelty.

WEDGWOOD—Bright, silvery blue. Large, well waved flowers on long stems. An attractive and very desirable shade.

Cream DOBBIE'S CREAM—A strong growing, cream or primrose. A profuse blooming variety, with large, much waved flowers, often duplexed.

Crimson KING EDWARD—Deep rich crimson; a strong and beautiful color. Does not fade or scorch.

DOBBIE'S SUNPROOF—This is a fitting companion to Dobbie's Cream, and will be as popular when as well known. Bright and attractive. A great bloomer and large flowers.

Lavender ASTA OHN—An exquisite rosy lavender. Flowers large and well waved.

FLORENCE NIGHTINGALE—A soft, clear, rich lavender, enlivened by a faint sheen of rose-pink.

THOMAS STEVENSON, IMP.—Intense flaming orange-scarlet standard with wings of rosy carmine shaded orange. A magnificent variety.

Pink HERCULES—A soft rosy pink, deepening towards the edges of both standard and wings. A very much improved Countess Spencer.

HAWLMARK—This most beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon. The wings are bright rose-pink, whereas the standard is somewhat lighter in color and slightly toned down with salmon. Large, well-waved blooms, usually borne in fours.

MARGARET ATLEE IMPROVED—A rich glowing pink on cream ground, softly suffused with salmon in the standard and pinkish rose or salmon wings. The flowers are large, beautifully frilled or waved and many of them double.

Purple ROYAL PURPLE—The color is a rich, royal purple, the younger flowers having a slightly softer color tone. Best purple yet introduced.

Rose SPARKLER—A great flower for cutting and exhibition; of largest size. The color is a charming combination of rose and cream, the standard being bright rose and the wings are a lively shade of creamy primrose lightly suffused soft rose. A most vigorous grower; the beautifully waved flowers are borne four on a stem in the greatest profusion.

Salmon BARBARA—A superb salmon-colored self that makes a telling bunch either for exhibition or table decoration. Requires shading against strong sun.

Scarlet ROYAL SCOT—Royal Scot is an outstanding variety with immense flowers of heavy texture and beautiful formation. The blooms are not only very large, but they are also gracefully waved and fluted. The color of Royal Scot is most appealing and of remarkable brilliancy and depth. It is a wonderful shade. Usually four large blooms are borne, artistically arranged on a long and strong stem. The vines are heavy and bloom profusely.

VERMILLION BRILLIANT—The standard and wings are of intense pure scarlet. The bold flowers are of largest size and are almost sun-proof.

White SPENCER—One of the purest and best whites.

KING WHITE—Remarkable for the glistening purity of the whiteness and the perfect finish of the flower. Of truly gigantic proportions. Four flowers on a stem.

All of the foregoing 20 varieties of choice Spencer Sweet Peas. Pkt., 10c; any 12, \$1.00; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00; ½ lb., \$1.50; 1 lb., \$2.50.

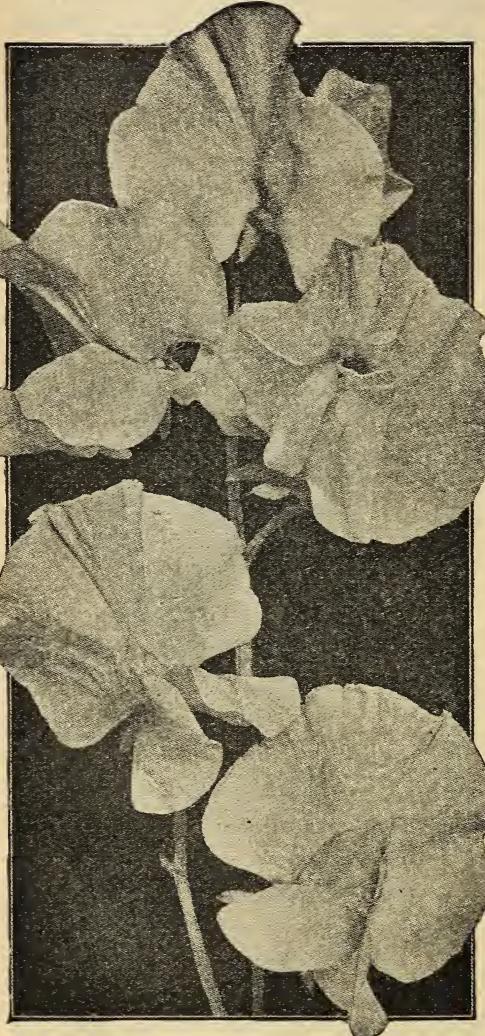
SELECTED SPENCERS

All of the following 12 varieties of Selected Spencer Sweet Peas. Pkt., 2 for 25c; 12, \$1.20; oz., 35c; 2 oz., 65c; ¼ lb., \$1.10; ½ lb., \$2.00; 1 lb., \$3.50.

Blue SKY—The color is bright and clear, combining purity with warmth. Large flowers, beautifully waved, carried in fours on long stems.

FORDHOOK BLUE—This variety is very outstanding, being a rich azure or light violet-blue color. Of strong growth and free blooming. Large size.

Lavender WEMBLEY—A delightful shade of lavender with a touch of plum-bago blue and a silver sheen.



Maroon WARRIOR—The color is a rich reddish maroon flushed with bronze. Lovers of dark shades will appreciate this fine color. A strong grower and free bloomer.

Orange THE PRESIDENT—A most brilliant color. An intensely rich and dazzling orange scarlet, large size and perfect form.

Pink **MISS CALIFORNIA**—A most beautiful and outstanding cream pink. The beautiful coloring of the flower and blending of shades is perfect and wonderful. Large flowers, waved, and borne in fours on long stout stems, combined with its vigorous growth, makes it a very desirable variety.

ROYAL PINK—Shrimp-pink and orange.

SUNSHINE—An outstanding sweet pea on account of its remarkable color. The flowers are a pleasing shade of Formosa Pink, with a blotch of deep primrose at the base of the standard. The reverse of the standard is flushed yellowish amber.

Purple **FLORADEALE PURPLE**—This has been for years the leading purple Sweet Pea in existence. It is a warm rich shade of rosy purple. The standard has a rich metallic sheen which greatly adds to the attractiveness.

PURPLE PERFECTION—This is quite a recent addition to the purple class. The blooms combine richness of color with large size and good form.

Orange **ELECTRIC**—The standard is a lovely shade of rich orange-red suffused salmon. The wings are deep rose suffused orange.

FORDHOOK—This is unsurpassed in color. The blooms are bright orange, very large and does not scald in the sun.

Scarlet **FLAMBEAU**—Pure scarlet overlaid with a bright orange-scarlet sheen, very handsome and attractive.

grenadier—The large flowers are a rich poppy scarlet. Borne abundantly on long stems.

All of the foregoing 12 varieties of Selected Spencer Sweet Peas: Pkts., 2 for 25c; 12, \$1.20; oz., 35c; 2 oz., 65c; 1/4 lb., \$1.10; 1/2 lb., \$2.00; lb., \$3.50.

SPECIAL SELECTION

The following 6 varieties of specially selected Spencer Sweet Peas: Pkt., 15c; 6 for 75c; oz., 60c; 2 oz., \$1.10; 1/4 lb., \$1.75; 1/2 lb., \$3.25; lb., \$6.00.

Flamingo The flowers are truly enormous in size, produced in threes or fours on very long, stiff stems. The broad and well-waved standard is light orange, with a suffusion of bright salmon, and the wings are a delicate shade of orange pink. It is a most charming combination of colors which blend into a general effect of bright, light orange. **FLAMINGO** is a fine grower, with strong stems and rich green foliage.

Glitters The standard is a bright, fiery orange, and the wings are deep orange. The enormous flowers are of substantial texture, and hold up well after cutting. The flowers are artistically placed usually in fours, on a long and strong stem. **Glitters** is a strong and vigorous grower, with healthy, deep green foliage, blooming profusely and continuously.

Miss Philadelphia A pleasing shade of rosolane-pink suffused pale amber and salmon.

Miss Spokane It was by special request of the Florists' Club of Spokane, Washington, and others, that we gave the name "Miss Spokane" to this bright and outstanding Burpee variety. The standard is peach-red and the wings bright scarlet blending into a bunch effect of rich orange-scarlet. Miss Spokane combines immense size with exquisite form. Awarded two Certificates of Merit.

Mrs. Warren G. Harding A beautiful shade of silvery blue. The flowers are of exquisite texture, large, well waved, and artistically displayed in fours on a long stem. It is a particularly charming variety.

Chieftain This has been awarded a Gold Medal at the Scottish Sweet Pea Society Trials, 1926; also Certificate of Merit at the National Sweet Pea Trials, 1926. The color is pure satiny mauve.

The foregoing 6 varieties of specially selected Spencer Sweet Peas: Pkt., 15c; 6 for 75c; oz., 60c; 2 oz., \$1.10; 1/4 lb., \$1.75; 1/2 lb., \$3.25; lb., \$6.00.

MIXED GRANDIFLORAS

OUR CLOVER LEAF MIXTURE is blended in the proper proportions and good seed only is used. Therefore, it is highly dependable, and with proper care should give very satisfactory results. Pkt., 5c; large package, 15c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; 1/2 lb., 85c; 1 lb., \$1.50.

PERENNIAL SWEET PEAS

Easily grown, hardy with smaller flowers and lacking the fragrance of Sweet Peas, but producing for many weeks a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the second season but in the third and fourth, the plants then being well established, an abundance of foliage and blooms is afforded. The plants die down late in the fall and start again in the spring.

Sow the seed out doors early in spring, using well prepared soil and covering the seed about one inch deep with fine soil firmly pressed down. Mixed, pkt., 10c; 1/2 oz., 45c; oz., 75c.

Reed Canary Grass

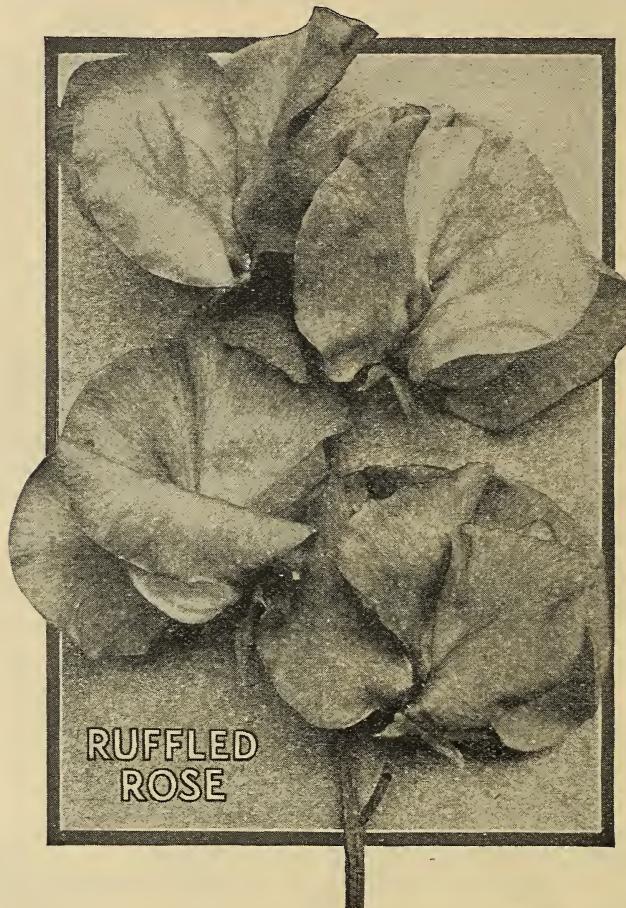
(*Phalaris Arundinacea*)

A very tall grass growing from six to seven feet high. Known as water grass because of its natural affinity to marshy places. It grows and thrives and becomes a permanent pasture in ditches, ponds and marshy places. Its great advantage is that it produces an abundance of feed in what has been waste places, and not only an abundance of feed but a highly nutritious feed, which is relished by horses.

Write for price.



Burpee's 1929 Novelties



Ruffled Rose This is a new Giant of the Ruffled class, even larger than Fluffy Ruffles, introduced by us last year. Ruffled Rose is of a soft but rich shade of rose with an oversheat of salmon, which makes the color of great warmth and attractiveness. The flowers are truly gigantic in size; six sprays make a bunch more massive than twelve ordinary Sweet Peas. It is robust and strong growing. Ruffled Rose is a hybrid and has a tendency to produce some flowers of a cherry-rose color, which also are ruffled. Ruffled Rose and

Fluffy Ruffles are the first two Ruffled Sweet Peas in commerce, and therefore will be in great demand. Pkt. of 20 seeds, 25c.

Ambassador Ambassador is a big flower, well waved and formed, borne in fours on very long stems. The vine is vigorous and free flowering. The color of Ambassador is a clear deep rose-pink on a background of deep primrose. The color is decidedly lighter at the base of the standard and wings, and on the margins, which adds considerably to its loveliness. Pkt. of 20 seeds, 25c.



VINES FROM SEEDS

Balloon Vine (Love-in-a-Puff) (A) — A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white, seed vessels like miniature balloons. Pkt., 5c; $\frac{1}{2}$ oz., 25c; oz., 40c.

Balsam Pear (A) — A rapid grower, attaining 10 feet in height. Has graceful and ornamental foliage, yellow flowers and warty, golden yellow fruit. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

Beans Scarlet Runners (A) — A great favorite not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c; $\frac{1}{2}$ lb., 30c; lb., 50c.

Bean Hyacinth (Australian Pea Vine) (Dolichos) (A) — This really beautiful climbing plant is of quick growth; foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. The shining purple seed-pods are also very ornamental. Tender annual, growing six to eight feet. Seed should be sown where plants are desired, in as warm and dry a spot as possible. Mixed, pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 30c.

Boston or Japanese Ivy (Ampelopsis Veitchii) (P) A rapid creeper with lovely green foliage which turns red in fall. Excellent for covering walls, outhouses, etc. Height, 50 feet. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

Canary Bird Vine (P) — A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

Cardinal Climber (A) — This is a great favorite among st climbers and attains a height of 15 feet. The leaves resemble those of a fine Japanese maple and completely cover the vines. The bright scarlet flowers are not large but grow in such profusion as to completely cover the vines. Pkt., 15c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.50.

Climbers (A) — This assortment of Climbers consists of from ten to fifteen varieties and will be found to be intensely interesting and beautiful. Pkt., 10c; oz., 30c; 2 oz., 50c; $\frac{1}{4}$ lb., 90c.

Cypress Vine or Ipomea Quamoclit (A) — A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

Coboea Scandens (A) — One of the handsomest and most rapid growing of the annual climbers. It climbs 30 feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

Gourd (Cucurbita) (A) — A very extensive genus of trailing annuals with curiously shaped yellow fruit, commonly known as Ornamental Gourds. The vines are of easy

culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is ornamental, and the markings of some of the fruit extraordinary. Do not plant the seed till danger of frost is over, and select light, rich soil and a sunny situation. Water freely. Ten to twenty feet high. Mixed, pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c.

Japanese Kudzu Vine (A) — The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy; fine for arbors, verandas, etc. Pkt., 10c; $\frac{1}{2}$ oz., 50c; oz., 75c.

Japanese Hop (Humulus) (A) — Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c.

Moon Flower or Ipomea, Mexican Grandiflora (A) — Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt., 10c; $\frac{1}{2}$ oz., 40c; oz., 75c.

MORNING GLORIES

A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc., if support be given the vines. Hardy. Seed is usually sown outdoors early in spring in row where plants are to remain. Well pulverized soil should be used and the seed covered one-half inch deep; thin four to six inches apart. If very early blooming is desired, seed may be started indoors and transplanted. Give some support such as strings or cord to the vines as soon as they begin to run and they will often exceed ten feet in height before the season is over.

MORNING GLORY (A) (Convolvulus Major Ipomea Purpurea) — Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 5c; $\frac{1}{2}$ oz., 15c; oz., 20c; 2 oz., 30c; $\frac{1}{4}$ lb., 50c.

GIANT JAPANESE FRINGED (Imperials) (A) — The flowers of this variety are of largest size, often three inches or more across; some are brilliant red or rich blue, others are equally brilliant, with broad margins of clear white; some are striped or dotted with blue or red on white or lemon yellow ground, others are clouded with blue and red. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c; 2 oz., 75c; $\frac{1}{4}$ lb., \$1.25.

SMILAX (P) — Charming tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. Pkt., 10c.

WILD CUCUMBER (A)—This is one of the quickest growing vines. It will re-seed itself. Thickly dotted over with pretty white fragrant flowers, which are followed by an abundance of ornamental prickly seed pods. Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 75c; 1/2 lb., \$1.25; lb., \$2.25.

VINES FROM ROOTS

CINNAMON VINE—This climber is appropriately called Cinnamon Vine. Very hardy, the stem dying down every autumn, but growing again so rapidly as to cover completely any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is most desirable climber. Each, 15c; 2 for 30c; 1/2 doz., 75c. Postpaid, doz., \$1.25.

HOPS—Are the most rapid growers of any vine coming from the roots each spring. Their rapid growth and large broad leaves cover a porch before the arrival of the hot days of the summer. Postpaid, each 10c; 1/2 doz., 50c; doz., 75c; 50, \$3.00; 100, \$5.00.

Bulbs

SUMMER FLOWERING

There is nothing in floriculture that will give greater satisfaction or produce such grand results as this class of bulbs, which includes some of our showiest garden flowers. They are of the easiest culture. Planted in spring in good garden soil, they flower with great certainty during summer and fall. The hardy sorts may remain in the ground over winter, but tender sorts should be taken up after the foliage dries in the fall and the bulbs stored away in a cool place until planting time in the spring.

CANNAS

Cannas should be planted in good, rich garden soil, mixed with half of old rotten stable manure by the end of May, when danger from frost is past. Water sparingly for first two weeks after planting. When growing freely water liberally. They are quick growers and bloom continuously until frost. Inexpensive, these charming ornamental plants produce rich tropical effects that cannot be excelled, and they are equally valuable for the beauty of their bloom. In straight or assorted lots.

Our Cannas are famous for their sterling qualities. They have "eyes to see."

The following are among the very best improved flowering Cannas, and will give great satisfaction.

ALSACE—Pale sulphur, changing to cream white. Green foliage, 4 feet. Each 25c.

AMERICAN BEAUTY—Oriental carmine or cerise. Green foliage, 5 feet. Each 35c.

APRICOT—Buff-yellow base, overspread with salmon pink. Each 35c.

BEACON—Moderate sized flowers borne in great heads of rich cardinal red. Each 25c.

BRANDYWINE—A healthy, vigorous grower of four to five feet. Makes luxuriant growth of dark bronze foliage and a magnificent display of fine large flowers. Color is intense vinous red, beautifully dappled with deep crimson. Each 25c.

CHAS. HENDERSON—Crimson; compact trusses; very free bloomer, leaves green. Each 25c.

CHEERFULNESS—Its beautiful bright fire-red or deep orange flowers appear early and continue without interruption until frost. Each 35c.

EGANDALE—A fine, bronze-leaved variety; cherry-red flowers, borne well above the foliage; handsome. Four feet. Each 25c.

FIERY CROSS—Very large flower heads of vivid scarlet shading to crimson; foliage lustrous blue-green. Five feet. Each 30c.

GAIETY—Reddish orange, mottled with carmine and edged with yellow. The tongue is yellow and densely spotted with carmine. Each 25c.

GLADIOFLORA—Remarkable on account of the unusual shape of its flowers, which look like a Gladiolus; color, crimson changing to carmine-rose, with an irregular edge of gold. Four feet. Each 25c.

LOUISIANA—Orchid-flowered. Very large trusses of vivid scarlet flowers; free bloomer. Each 25c.

MORNING GLOW—Foliage an olive-green striped and veined with brown. Flowers soft shell pink and orangish center. Four feet. Each 35c.

ORANGE BEDDER—This is a particularly useful and attractive bedding variety, of a bright orange with just enough scarlet suffusion to intensify the dazzling mass of color. Four feet. Each 25c.

PANAMA—The color of this splendid Canna is unusual, being an attractive rich orange-red with a well-defined edge of bright golden yellow. The flowers are very large, the petals being almost round and the immense spread of the individual blooms, coupled with the early, free-flowering habit and unique colorings make this Canna most noteworthy. Three feet. Each 25c.

SAN DIEGO—Persian yellow, with crimped petals. Four feet. Each 30c.

THE PRESIDENT—A gorgeous variety producing great trusses of bright red flowers in great profusion. Each 30c.

WINTZER'S COLOSSAL—Five feet. Without doubt the largest-flowered Canna to date, as the average flowers almost cover a man's hat. The color is a strikingly vivid scarlet that retains its brilliancy. Each 25c.

All 25c Cannas, 1/2 doz., \$1.35; doz., \$2.50.

All 30c Cannas, 1/2 doz., \$1.65; doz., \$3.00.

All 35c Cannas, 1/2 doz., \$2.00; doz., \$3.50.

DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers. They have been greatly improved and are growing in favor from year to year. The following selections have been made with the greatest care, and every one will be found to possess true merit, and with proper care and conditions will amply repay the care and attention that has been given them.

Examine our assortment of Bee, Dairy and Poultry Supplies.

We recommend certified Grimm alfalfa, blue tag.

It pays to inoculate alfalfa and all legumes, also peas and beans with McQueen's Inoculation.

CACTUS



This type is particularly valued on account of the fact that the flowers will keep in good condition longer after cutting than those of any other type.

One each of these twelve varieties of fine Cactus Dahlias, \$6.25 postpaid. If bought singly price would be \$6.55.

Crimson H. H. THOMAS—Deep crimson, bright and attractive, good bloomer with long stems. Each, 60c.

Old Gold RAPIERE—This is as its name implies, a rich old gold or bronze and is very attractive and fascinating. Each, 60c.

Orange BOWEN TUFTS—Bright orange. Each 60c.

Pink DENISON—Pure rosy pink. Each 50c. MRS. EDNA SPENCER—Delicate orchid pink. Each 50c.

Red WILLIAMSONI — Blood orange red. Each 50c.

Rose ETENDARD DE LYON—Beautiful rich carmine-rose. The flowers are distinct in shape from all others, with broad, curling, wavy petals which form a flower six inches in diameter and four inches deep. Each, 50c.

SIMPLICITY—Soft lilac-rose. Each 50c.

Scarlet GUARDIAN—One of the few perfectly formed narrow petaled English Cactus type that is free flowering under all climatic conditions. A luminous attractive brilliant currant red with large flowers, well supported on stiff wiry stems. Each, 60c.

Yellow BREAK O'DAY—A good-sized flower with a full, high center, with more or less curved and twisted petals, intermingled with the flatter ones, forming a most attractive, graceful flower. In color, a clear sulphur-yellow, shading to sulphur-white at the tips, early and free-flowering. Each, 75c.

EDITH CARTER—Yellow suffused carmine. Each 50c.

White BRIDE'S BOUQUET—One of the best and purest whites, large size and free bloomer. Each 50c.

COLLARETTE

COLLARETTE—The Collarette Dahlias differ from all other types by having a distinct and attractive collar which appears in the form

of irregularly arranged petals of a distinct color between center and the outer petals. Collarette Dahlias have become immensely popular within recent years and this is not to be wondered at when we consider their striking beauty and their usefulness for all kinds of decoration.

Ami Nonin Dark crimson-carmine, collar white suffused rose. Very large. Each 25c.

Autumn Tints Reddish orange. Each 50c.

Daffodil Clear yellow. Each, 35c.

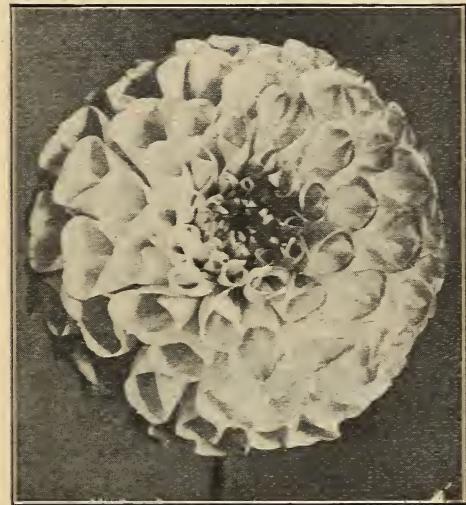
Pierson Durbrow Mahogany red, golden collar. Each 50c.

Souv. De Chabanne Yellow suffused scarlet. Each 50c.

The Marksman Light ground splashed crimson. Each 35c.

A collection of one each of the 6 varieties, \$2.20, postpaid.

DECORATIVE



Decorative Dahlia

The Decorative Dahlias are an intermediate form between the Show and Cactus types. Many beautiful varieties have been introduced, some with flat petals, others reflexed, incurved or curiously twisted; but nearly all are without formality or stiffness, and practically all of them are leaders as cut flowers, bearing their large perfectly formed blooms on long, stiff stems, and standing in good condition longer than most kinds; furthermore, they are of easy culture, and seem to adapt themselves to and succeed under the most varied conditions, a combination which assures their continued popularity.

One each of these twelve beautiful decorative Dahlias, \$5.75, postpaid, or \$6.10 worth of Decorative Dahlias for \$5.75.

Crimson PRIDE OF CALIFORNIA—A very large rich crimson with a darker center. The huge flowers are borne on long stems. A free bloomer. Each, 50c.

Pink QUEEN MARY—Vivid light pink. Each 50c.

SYLVIA—Soft, pleasing, mauve-pink, changing to white in center, a fine cut flower. Each, 25c.

Purple LE GRAND MANITOU—Splashed purple on deep rose. Each 50c.

Red FIREBURST—Brilliant scarlet red, flowers borne on stems of good length for cutting. Each, 50c.

OREGON BEAUTY—Its large size, brilliant color and free-flowering habit makes this a variety that stands out prominently among its neighbors; color, a rich, oriental red with golden sheen and garnet suffusion. Each, 35c.

Scarlet PRINCESS—Orange scarlet, very handsome. Each 65c.

GEN'L. J. B. SETH—Brilliant scarlet to orange scarlet. Each 50c.

White MONT BLANC—An early, free, continuous flowering creamy-white on good stiff stems. A most important cut flower variety. Each, 50c.

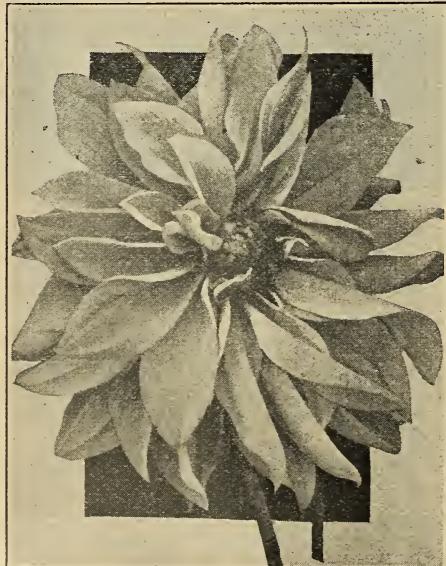
PRINCESS JULIANA—An ideal pure white for all purposes. A splendid cut flower and a good decorator for the garden. It is one of the earliest to flower, and continues in good shape throughout the season. It holds its flowers well above the foliage on stiff, wiry stems. Each, 35c.

Yellow MRS. C. H. BRECK—A splendid all around variety for garden decoration as well as for cutting. Its flowers are always of perfect shape, full double to the centre of a soft yellow, deeply suffused with carmine, produced in great profusion on long stiff stems. Each, 65c.

JOHN LEWIS CHILDS—One of the very best fancy decorative dahlias. Deep yellow splashed and striped red. Petals long and pointed. Each, 40c.

One each of these twelve beautiful decorative Dahlias, \$5.75, postpaid; or \$6.10 worth of Decorative Dahlias for \$5.75.

PEONY—FLOWERED



This type of Dahlia has quickly taken first place among all types. The flowers are large and particularly valuable on account of their artistic effect. They are bold usually with broad petals, which in many varieties are great-

ly curled and twisted. The yellow center of the blooms is quite often completely hidden by the small incurving petals.

Laura Barnes One of the most popular varieties. Its large flowers are an attractive shade of orange red. Each, 40c.

Niagara Lovely old shade of red. Each, 75c.

Princess Mary Vivid light pink. Each 45c.

Polar Bear Pure white. Each 65c.

Tango Salmon color. Each, 45c.

Winifred Lovely yellow. Each, 75c.

One each of these six Peony flowered Dahlias, \$3.50.

POMPON



Pompon

The plants grow into neat little bushes which are covered with small, perfectly ball-shaped Dahlias, measuring up to 2 inches in diameter. The flowers are always double to the very center and in many varieties the petals are curled.

Alewine Pink-tinted lilac.

Amber Queen Amber to apricot.

Hesperia Deep yellow to lighter shade.

Gretchen Heine Bluish white, rose tips.

Little Jennie Primrose, yellow.

Nerissa Soft pink, tinted silver.

Each 40c, or the six for \$2.20.

SHOW

Show Dahlias are usually of solid color, but in certain varieties the tips of the petals may

be of another. They are usually round, ball-shaped, and are always beautiful and compact, desirable for cut flowers.



Show Dahlia

Glory of Argonne Very beautiful pink and white. Each, 60c.

King of Shows A mammoth flower, color a deep solid butter yellow, long stems. Each,

Margaret Saltus Lovely soft pink. Each, 50c.

Martha Lowei Old rose. Each, 75c.

Maude Adams A beautiful pure white, very effectively overlaid with clear delicate pink. A fine cut flower. Each, 40c.

Mrs. J. P. Smith Rich red, shaded cherry. Each, 50c.

The entire 6 Show Dahlias, \$3.25, postpaid.

All 30c Dahlias	1/2 doz., \$1.75; doz., \$3.25
All 35c Dahlias	1/2 doz., \$2.00; doz., \$3.75
All 40c Dahlias	1/2 doz., \$2.25; doz., \$4.25
All 50c Dahlias	1/2 doz., \$2.75; doz., \$5.25
All 60c Dahlias	1/2 doz., \$3.50; doz., \$6.50
All 75c Dahlias	1/2 doz., \$4.25; doz., \$8.00

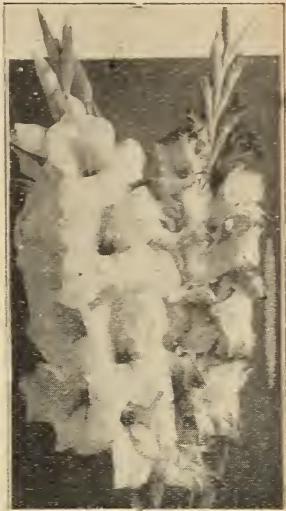
Users of Hotkaps have been well pleased with results obtained. Highly recommended.

Try Plant Bands and Plant Pots for transplanting plants.

Mastodon, the new Everbearing Strawberry.

GLADIOLI

Gladioli are the most satisfactory, desirable and popular of all the garden bulbs. Nothing else of the kind costs so little, grows and blooms so readily in any soil or climate as Gladioli. They thrive and bloom with the least care and attention, and make a display which for brilliancy and beauty of coloring few bulbs can equal and none surpass. Plant any time from March to June.



Special prices postpaid, in straight or assorted lots:

All 50c varieties	50, \$2.00; 100, \$3.50
All 60c varieties	50, \$2.25; 100, \$4.25
All 75c varieties	50, \$2.75; 100, \$5.25
All \$1.00 varieties	50, \$3.75; 100, \$7.00
All \$1.25 varieties	50, \$4.75; 100, \$9.00

All named varieties of Gladioli are number one bulbs and are not to be compared in quality to the smaller bulbs. These large bulbs cost more, but are well worth it, as they produce longer spikes, thus giving not only more flowers, but larger.

Blue

BARON HULOT—Long, graceful spikes, of good-sized, well-opened flowers, having a rich indigo-blue color. It stands alone as a unique and beautiful shade, and never fails to attract attention. 2 for 25c; 1/2 doz., 75c; doz., \$1.25.

CONSPICUOUS—Light blue, dark blue spot with yellow center, 3 for 25c; 1/2 doz., 45c; doz., 75c.

Lavender

MARY FENNELL—Beautiful, deep lavender flowers on a tall slender spike. Lower petals penciled, with primrose-yellow. Two for 25c; 1/2 doz., 60c; doz., \$1.00.

FAIR COLUMBIAN—Lilac lavender, tall, vigorous plant, good cut flower. 2 for 25c; 1/2 doz., 75c; doz., \$1.25.

Maroon

ARIZONA—Dark pink, maroon markings on lower petals. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Orange

EARLY SUNRISE—Deep orange salmon with yellowish blotch on lower petals; very early, excellent florist variety, good forcer. 2 for 25c; 1/2 doz., 60c; doz., \$1.00.

GOLDEN WEST—Bright orange red with some darker stripes. 3 for 25c; 1/2 doz., 45c; doz., 75c.

Pink

AMERICA—A beautiful soft flesh pink. By far the most vigorous and easily grown Gladi-

olus known. Strong and healthy with luxuriant dark-green foliage and a freedom of growth and flowering surpassing all others. Spikes two to three feet long, erect with a great number of large spreading blossoms, all facing one way and showing a color, the delicacy and beauty of which it is impossible to describe or reproduce. It is an exquisite, soft lavender pink, very light, almost a tinted white. 4 for 25c; $\frac{1}{2}$ doz., 30c; doz., 50c.

LE MARECHAL FOCH—An early-flowering strong-growing variety with deep rose-pink flowers. The spikes are bold flowers, large and a good many in bloom at same time. 4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

PANAMA—An introduction of sterling merit, is a favorite wherever high grade varieties are grown. It is similar to and has all the good qualities of America, but in color is a rich, rose-pink. Unquestionably one of the finest. 4 for 25c; $\frac{1}{2}$ doz., 30c; doz., 50c.

Purple

ANNA EBERIUS—Deep velvety purple with dark Bordeaux center; large flowers on strong stem. 4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

Red

IDA VAN—Brilliant deep salmon red; good strong flower spike. 4 for 25c; $\frac{1}{2}$ doz., 30c; doz., 50c.

MRS. FRANCIS KING—Of exceptional value for cut flower use. Color is a very pleasant light scarlet, strikingly attractive. Separate flowers often measure 4 to 5 inches across and 5 to 6 flowers are open at one time. 4 for 25c; $\frac{1}{2}$ doz., 30c; doz., 50c.

Spotted

HALLEY—The predominating color of these flowers is delicate salmon-pink with a slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center, the whole producing a delightful effect. 4 for 25c; $\frac{1}{2}$ doz., 30c; doz., 50c.

MRS. FRANK PENDLETON—The flowers are very large and well-expanded, of a lovely flushed salmon-pink with brilliant carmine, or deep blood-red blotches in the throat, presenting a vivid contrast of orchid-like attractiveness. It is of the Lemoinei type in form and color effect, with a *gandavensis* stem, so that it takes up water freely and opens up perfectly nearly every flower after being cut and placed in water. 4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

White

LILY LEHMAN—Ivory white lily shaped flowers, very beautiful. 2 for 25c; $\frac{1}{2}$ doz., 60c; doz., \$1.00.

PEACE—Flowers are large, of good form, correctly placed on a heavy, straight spike. Beautiful white, with pale lilac feathering on interior petals. 4 for 25c; $\frac{1}{2}$ doz., 30c; doz., 50c.

Yellow

NIAGARA—Giant Yellow. In color the flowers are of a delightful cream shade with the two lower inside petals or segments blending to canary-yellow. The throat is splashed and tinted with carmine. The flower spike is very erect and stout and is wrapped with broad dark-green foliage. 2 for 25c; $\frac{1}{2}$ doz., 45c; doz., 75c.

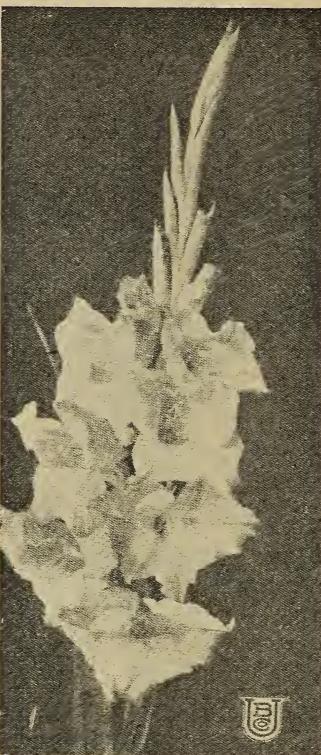
SCHWABEN—A very vigorous grower, also very free flowering. A clear canary yellow shading to sulphur yellow when open. 4 for 25c; $\frac{1}{2}$ doz., 35c; doz., 60c.

YELLOW HAMMER—A pure yellow with a little red mark in the throat. 2 for 25c; $\frac{1}{2}$ doz., 60c; doz., \$1.00.

Special prices, postpaid, in straight or assort-ed lots:

All 50c varieties.....	50, \$2.00; 100, \$3.50
All 60c varieties.....	50, \$2.25; 100, \$4.25
All 75c varieties.....	50, \$2.75; 100, \$5.25
All \$1.00 varieties.....	50, \$3.75; 100, \$7.00
All \$1.25 varieties.....	50, \$4.75; 100, \$9.00

New Introductions



GOLDEN WONDER

Purest golden yellow; very strong, tall spike with many flowers open at one time; a robust grower and one of the finest yellows ever introduced; large flowering Primuliness type.

PRINCE OF ORANGE

Orange salmon, unusual bright color; strong, tall flower spike; good grower and rapid propagator; excellent cutflower.

Both varieties, each 25c; $\frac{1}{2}$ doz., \$1.25; doz. \$2.25.

Ruffled Gladioli

The ruffled varieties are very much admired and esteemed by all lovers of this beautiful flower, and without doubt is a great forward step and adds much to their beauty.

ANTHONY B. KUNDRED—Delicate cream, overlaid blush pink, lower petals primrose yellow, heavily ruffled, a rare beauty.

DREAM—Deep salmon red with large throat blotches of dark red; large, ruffled flowers and strong, sturdy stem.

MARIE KUNDERD—Purest white with almost invisible pink lines in center of lower petals; finely ruffled and very early.

TWILIGHT—Creamy buff, edges of petals flaked pink, throat primrose yellow and pink; splendid ruffled variety.

Any of these fine ruffled gladioli 15c each; $\frac{1}{2}$ doz., 85c; doz., \$1.50.

Clover Leaf Gladioli Mixtures

CLOVER LEAF MIXTURE—Gladioli mixtures can be purchased at almost any price and under almost any name, and it is a difficult matter for the purchaser to decide which is best. Our advice would be not to purchase small bulbs simply because they are quoted cheaper. Difference in cost is far more than compensated for in the better satisfaction obtained by planting the larger bulbs.

This year we are offering our Clover Leaf Mixture in two sized bulbs, the only difference being difference in size, as the mixtures are exactly alike.

No. 1 Mixture—First size bulbs, each, 5c; doz., 60c; 50, \$2.25; 100, \$4.00.

No. 2 Mixture—Second size bulbs, each, 5c; doz., 50c; 50, \$1.75; 100, \$3.00.

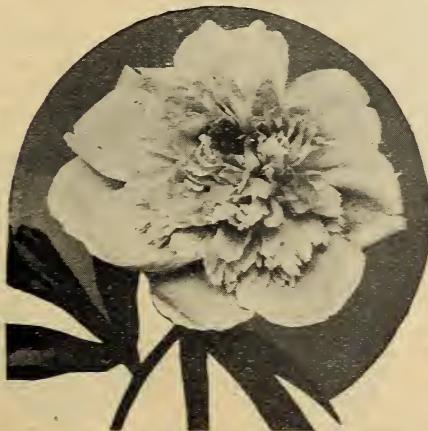
LILY OF THE VALLEY—One of the most satisfactory and charming spring flowering plants producing in profusion its delicate bell-shaped delightfully fragrant white flowers. Lillies of the Valley thrive in any common soil, are perfectly hardy, and will succeed in shady situation. 3 for 25c; doz., 90c; 50, \$3.25; 100, \$6.00.



Peonies

There is no hardy perennial which equals the Peony in beauty and usefulness. Once planted, the plants and flowers increase in size and beauty with age.

We are giving the rating of the Peonies we list and you will notice that their rating is high.



The rating is established by a vote of the members of the American Peony Society. It is based on a scale of 10, this number representing the highest perfection in every way, what not one variety as yet has achieved. From 7 up one cannot go wrong on any variety, as these are all good. Scale of points adopted by

the American Peony Society and on which the rating is based, is as follows:

Color	2.5
Form	1.5
Size	1.5
Distinctiveness	1.5
Substance	1.0
Stem	1.0
Pleasant odor	1.0
Total	10.0
No odor	0.5
Unpleasant	0.0

Besides the rating, the A. P. S. has also divided the types of flowers into eight classes, as follows:

SINGLE—these have a single row of broad guard petals and the center filled with a mass of pollen-bearing stamens.

JAPANESE—In these, the doubling has just begun. They have a double row of wide guard petals and the stamens and anthers greatly enlarged into narrow petaloids, which form a round cushion.

ANEMONE—This is the next stage in the doubling process; here all the stamens are transformed into short, narrow petals, which also form a round, but wider, cushion.

SEMI-DOUBLE—These have several rows of wide guard petals and a center of partially formed petals, with stamens intermingled. The guard petals may or may not be of the same color-shade as the center petals.

CROWN—These have wide petals in the center of the flower, forming a high crown, around which narrow, short petals form a ring or collar, surrounded again by wide guard petals.

BOMB—These have the center petals nearly uniform in width, distinct from the guard petals and forming a globe-shaped center without collar or crown.

SEMI-ROSE—Here all petals are uniformly wide, intermingled with a few pollen-bearing stamens.

ROSE—In this type the doubling process is completed, forming a perfect, full rose shape, without stamens.

We have also marked the varieties as to the time of flowering; following explains the letters used: V. E. means very early, E.—early, M.—midseason, L. M.—late midseason, L.—late.

ALBATRE—Large, compact, globular rose type. Milk-white shaded ivory, wide center petals tinged lilac, edged with a minute line of carmine. L M 8.7. Each, \$1.00.

ALEXANDER DUMAS—Medium size, light violet rose, creamy white collar of narrower petals, mingled with wide center petals. E 7.1. Each, 75c.

COURBONNE D'OR—Late. Large, flat, semi-rose type. Pure white with ring of yellow stamens around a tuft of center petals tipped carmine. L 8.1. Each, 75c.

DORCHESTER—Large compact rose type, pale hydrangea pink, sulphur white collar. L 7.7. Each, \$1.00.

DUCHESS DE NEMOURS—Pure white crown, sulphur white collar, no crimson flecks. Crown type. E 8.1. Each, 60c.

EDULIS SUPERBA—Large loose flat crown. Bright mauve-pink. Crown type. V E 7.6. Each 60c.

EUGENIE VERDIER—Large medium compact flat semi-rose type. Pale hydrangea-pink. Collar lighter, center deeper, flecked crimson. E 8.6. Each, \$1.00.

EMPEROR NICHOLAS—Dark crimson rose type, tall strong grower. M 7.1. Each, \$1.00.

FELIX CROUSE—Rose type, brilliant ruby red, one of the best and most popular kinds for cut flowers. M 8.4. Each, \$1.00.

FESTIVA MAXIMA—Very large globular rose type. Pure white center, prominently flecked crimson; outer petals sometimes faint lilac. E 9.3. Each, 50c.

L'INDISPENSABLE—Globular rose type, lilac white shading to pale violet rose toward center. L M 7.3. Each, \$1.00.

LIVINGSTONE—Very large compact perfect rose-type. Pale lilac-rose, with silver tips, central petals flecked carmine. L 8.1. Each, \$1.25.

MARGUERITE GERARD—Large compact, semi-rose developing into a crown with stamens. Very pale hydrangea pink, fading to nearly white. Central petal flecked dark carmine. L 8.4. Each, 75c.

MME. CALOT—Large rose type. Pale hydrangea pink center shading darker. Collar tinged silver. V E 8.1. Each, 60c.

MME. BOLLET—Very compact globular rose-type, pale lilac pink, silvery reflex. E 7.4. Each, 50c.

MME. DE VERNEVILLE—Large very full bonib. Pure white center blush when first open, fading to pure white, prominent carmine specks. E 7.9. Each, 75c.

MONS. JULIE ELIE—Color an ideal glossy lilac-pink, shading to deeper rose at the base of the entire flower, overlaid with a sheen of silvery rose. Bonib type E 9.2. Each, \$1.50.

MONSIEUR KRELAGE—Semi-rose type, deep solferino red with amaranthine center,

large flat flowers, erect grower and free bloomer. M 7.7. Each, \$1.00.

Special prices, postpaid, in straight or assorted lots:

	1/2 Doz.	Doz.
All .50 Paeonies.....	\$2.75	\$5.00
All .60 Paeonies.....	3.25	6.00
All .75 Paeonies.....	4.00	7.50
All 1.00 Paeonies.....	5.50	10.00
All 1.50 Paeonies.....	8.00	14.00

Mixed Colors

These mixed colors are not mixed and sold cheap because of small roots or inferior blooms but because names and colors have been misplaced. Very highly recommended. Each, 50c; $\frac{1}{2}$ doz., \$2.75; doz., \$5.00.

Tritoma, or "Red-Hot Poker"

TRITOMA PFITZERI—It grows from four to six feet high; the flower-spike is often five feet high, and the flower measures twelve to fifteen inches long by four inches in diameter. They are a dazzling scarlet, lower half of flower tinged with rich orange. A clump makes a striking show. Each, 40c; $\frac{1}{2}$ doz., \$2.25; doz., \$4.25.

Bamboo Stakes

PAINTED GREEN

Height	Doz.	25	50	100
3 feet.....	\$0.30	\$0.50	\$0.85	\$1.50
4 feet.....	.40	.75	1.75	2.25

Peony and Plant Supports

Are made of strong galvanized wire. Will not rust. The very best support for peonies, tomatoes and such plants. Very strong and durable and can be used to advantage with a great number of different kinds of plants and flowers and will last for years.

Plant Props

Are desirable for supporting all kinds of flowers and vegetables that need support, such as tomatoes, dahlias, etc.

They are made of 6-gauge galvanized wire, will not rust, and eliminate the yearly chore of hunting and cutting wood sticks.

They have a loop at the top which is electric welded and prevents all string from slipping out of loop.

There are four grooves at even intervals on the prop to tie the plant, according to its height.

Price of Plant Supports

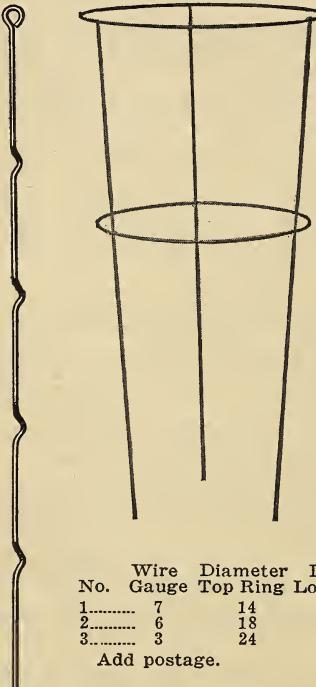
No.	Wire Gauge	Diameter Top Ring	Diameter Lower Ring	Length Side Wires	Each	1/2 Doz.	Doz.	Weight Each
1.....	7	14	12	.30 in.	\$0.35	\$2.00	\$3.50	1 1/2
2.....	6	18	16	.30 in.	.45	2.60	4.75	2 1/2
3.....	3	24	16	.30 in.	.75	4.40	8.50	3 1/2

Add postage.

Price of Plant Props

No.	Wire Gauge	Height	Each	1/2 Doz.	Doz.	25	50	100	Weight Doz.
4.....	36 in.	6 in.	\$0.15	\$0.80	\$1.25	\$2.00	\$3.50	\$6.50	4 lbs.
5.....	48 in.	3 in.	.20	1.00	1.75	2.75	4.15	14.75	9 lbs.
6.....	60 in.	3 in.	.25	1.25	2.25	3.00	5.15	18.75	11 lbs.

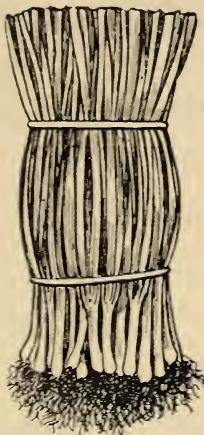
Add postage.



Bermuda Onion Plants

Of late years onion plants have been extensively used in some districts for producing large early matured onions, as it is claimed a matured onion can be secured from the plants much sooner than from seed or sets. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. Prepare land as you would for any other vegetables. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. An old-fashioned dibble can be used successively in planting. Do not plant too deep. Plants are put up 100 in a bundle and sixty bundles to a crate.

Price, postpaid, 100, 25c; 200, 40c; 300, 50c; 500, 75c; 1,000, \$1.35; crate of 6,000, \$7.50. Not less than 100 sold.



Strawberries



MASTODON

Greatest Everbearing Strawberry

MASTODON has so many good points in its favor that it may rightly be called the greatest achievement in the production of an everbear-

ing strawberry. It is a very mastodon in the size of its big, red, luscious berries. MASTODON berries are truly enormous in size. Their glossy red color and bright yellow seeds give them a beautiful appearance, and their firm flesh and tough skin make them an excellent shipper. MASTODON is a heavy plant maker, producing an abundance of large sized bushy plants with heavy foliage that protects the berries from the hot sun in Summer and rain and cold in the Autumn.

ITS ADVANTAGES

- Good keeper.
- A quick seller.
- Delicious flavor.
- Glossy red color.
- Excellent shipper.
- Very heavy cropper.
- Largest Everbearer grown.

Doz., 85c; 25, \$1.60; 50, \$2.75; 100, \$4.50, postpaid; at purchaser's expense, 500, \$16.00; 1,000, \$30.50.

PROGRESSIVE—This wonderful everbearer has become so well known and has proven such a favorite that it is unnecessary for us to give a long description. As a home garden berry the Progressive fills the bill. The Progressive is a persistent bearer from the time plants are set in the spring until hard freezing, and again is the first to bloom in the following spring, and yields a good crop same time as other varieties. The quality of this berry is most excellent.

SUPERB—The fruit of Superb is large, glossy and of fine quality, being a strictly fancy variety. It is not so productive and requires more care and attention than the Progressive, but makes up for this by being larger in size, presenting a better appearance, and having a finer flavor. In some sections of the Northern states, Superb gives better results than the Progressive.

Price of Progressive and Superb:

Doz., 50c; 25, 80c; 50, \$1.50; 100, \$2.50; 200, \$4.75; 300, \$6.75; 400, \$8.50, postpaid; at purchaser's expense, 500, \$9.25; 1,000, \$17.50.

AROMA—Among the best of the late ripening varieties. Quality the best of any, comes nearer being the true strawberry flavor than all others. Its shipping qualities are of the best.

CLARK'S SEEDLING—This variety originated in our state, a seedling of the old popular Wilson variety. Like the Hood River, a near relation, it is unsurpassed as a shipping variety and in some sections very prolific.

GLEN MARY—A bright, handsome, prolific, standard sort, grown the country over and perfectly reliable. Some large growers claim for this the par excellence in strawberries.

HOOD RIVER—The leading standard shipping variety. Dark red color, uniform size, good quality, but not heavy in yield. A specialty berry for the grower whose market is somewhat distant.

MARSHALL—Produces remarkably large, beautiful fruit, resembling the far-famed Glen Mary.

OREGON—A fadeless, dark red exterior; the deep red color is extended clear to the center of the fruit. Exceptionally fine for canning. Any variety that we offer will fertilize it except Aroma.

SENATOR DUNLAP—Its color is a rich dark red, with glossy finish. It has become a very popular variety, perhaps on account of its uniformity.

ALL OF ABOVE STRAWBERRIES

Postpaid, doz., 30c; 25, 50c; 50, 85c; 100, \$1.50. 200, \$2.50; 300, \$3.35; 400, \$4.00.

By Express, not postpaid, 500, \$4.50; 1,000, \$8.00.

Plants and Roots

(NO PLANTS OR ROOTS SENT C. O. D.)

Plants—Flowering—Perennials and Annuals

Variety	Prices		Variety	Prices	
	Postpaid	100		Postpaid	100
Alyssum	\$.35	\$3.50	Marigold	\$.35	\$3.50
Asters	.35	3.50	Mignonette	.35	3.50
Daisies	.35	3.50	Pansies	.75	5.50
Carnations	.35	3.50	Petunia	.35	3.50
Cosmos	.35	3.50	Salvia	.35	3.50
Dahlias	.35	3.50	Snapdragons	.35	3.50
Dusty Miller	.35	3.50	Stocks	.35	3.50
Geraniums, 3-in. pots	.40	each 4.50 doz.	Verbenas	.35	3.50
Heliotropes	.35	3.50	Wallflowers	.35	3.50
Lobelia	.35	3.50	Zinnias	.35	3.50

Plants—Vegetables

Please note that the quotations made on non transplanted plants are for outdoor grown plants, hence price does not apply to plants started and grown in hot beds or under glass. Outdoor grown plants are usually ready about May 15.

Variety	Postpaid			Not Postpaid	
	Doz.	50	100	500	1000
Brussels Sprouts	\$0.20	\$0.60	\$1.00	\$	\$

CABBAGE—

Early Jersey Wakefield, transplanted	.25	.75	1.00		
Early Jersey Wakefield, not transplanted	.20	.50	.75	2.75	5.00
Danish Ball Head, not transplanted	.20	.50	.75	2.75	5.00
Red, not transplanted	.20	.50	.75		
Copenhagen Market, not transplanted	.20	.50	.75	2.75	5.00

CAULIFLOWER—

Snowball, transplanted	.30	1.00	1.50		
Snowball, not transplanted	.25	.75	1.00	3.75	7.00

CELERY—

White Plume, transplanted	.25	.75	1.25		
White Plume, not transplanted	.20	.65	1.00	2.75	5.00
Golden Self-Blanching, transplanted	.25	.75	1.00		
Golden Self-Blanching, not transplanted	.20	.65	1.00	2.75	5.00
Celeriac	.25	.75	1.25		
Egg Plant	.30	1.00	1.50	4.25	8.00
Parsley	.25	1.00	1.25		

PEPPERS—Transplanted—

Chinese Giant	.30	1.00	1.25	3.75	7.00
Ruly King, transplanted	.30	1.00	1.25	3.75	7.00
Bull Nose, transplanted	.30	1.00	1.25	3.75	7.00
Cayenne, transplanted	.30	1.00	1.25	3.75	7.00
Cherry, transplanted	.30	1.00	1.25	3.75	7.00

TOMATOES—

Earliana, transplanted	.30	1.00	1.50	4.75	9.00
Earliana, not transplanted	.25	.75	1.25	2.75	5.00
Dwarf Champions, transplanted	.30	1.00	1.50	4.75	9.00
Dwarf Champion, not transplanted	.25	.75	1.00	2.75	5.00
Husk or Ground Cherry, transplanted	.30	1.00	1.50		

Roots

Variety	Postpaid			Not Postpaid	
	Each	Doz.	50	100	500
ASPARAGS—					
Palmetto, 1 year old	\$0.25	\$0.75	\$1.00	\$3.25	\$6.00
Palmetto, 2 years old	.40	.85	1.50	5.25	10.00
Palmetto, 3 years old	.50	1.50	2.25	7.75	15.00
Hop	.75	2.75	5.00		
Horseradish	.40	1.25	2.00		
Mint	.75	2.50	4.00		

Variety	Postpaid			Not Postpaid	
	Each	Doz.	50	100	500
Chives, small bunch	\$0.15	\$1.25	\$	\$	\$
Rhubarb, 1 year old	.15	1.25	3.25	5.00	17.50
Rhubarb, 2 years old	.20	1.75	4.50	10.00	47.50

PRICES NOT GUARANTEED, BUT ARE SUBJECT TO CHANGE.

ROOTS, FLOWERING, HARDY PERENNIALS

Variety	Time of Blooming	Height	Color	Prices		
				Prepaid Batch	Prepaid Dozen	Prepaid Each
Alyssum, Saxatile	Spring	1 foot	Yellow	\$0.35	\$3.50	
Anemone (Japonica)	Sept.-Oct.	2 feet	White-Pink-Red	.35	3.50	
Aquilegia (Columbine)	June-Sept.	30 inches	Red-Yellow-Blue-White	.35	3.50	
Arabis, Single	April-June	9 inches	White-Rose	.35	3.50	
Arabis, Double	April-June	9 inches	White	.35	3.50	
Aster, Alpina (Everlasting)	May-June	11 inches	Blue	.35	3.50	
Aster, Hybridum (Everlasting)	Aug.-Oct.	36-48 inches	Mixed	.35	3.50	
Aster, Rain of Blood (Everlasting)	Aug.-Oct.	36 inches	Red	.40	4.00	
Avens, Geum, Mrs. Bradshaw	June-Sept.	1½ feet	Yellow	.35	3.50	
Baby's Breath Gypsophila, Single	April-May	2 feet	White	.35	3.50	
Baby's Breath Gypsophila, Double	April-May	1½ feet	White	.35	3.50	
Bleeding Heart, Spectabilis	Summer	2 feet	Rose	.60	6.50	
Campanula (Canterbury Bell) Carpatica (Everlasting)	July-Aug.	12 inches	Lilac	.35	3.50	
Campanula (Canterbury Bell) Cup and Saucer	June-July	30 inches	White-Blue-Pink	.35	3.50	
Chrysanthemum (Shasta Daisy) Alaska	June-Nov.	24 inches	White	.35	3.50	
Chrysanthemum (Shasta Daisy) Common Early Flowering	May-June	24 inches	White	.35	3.50	
Coreopsis, Grandiflora	May-Oct.	24 inches	Yellow	.35	3.50	
Delphinium (Larkspur) Formosum	June-Nov.	36 inches	Blue	.35	3.50	
Delphinium (Larkspur) Hybridum	June-Nov.	60 inches	Blue	.35	3.50	
Delphinium (Larkspur) Belladonna	June-Nov.	60 inches	Light Blue	.35	3.50	
Dianthus (Pinks), Grass or Scotch Pink	May-July	12 inches	Mixed	.35	3.50	
Dianthus (Pinks), Caesius	June-July	8 inches	Pink	.35	3.50	
Dianthus (Pinks), Sub Acaulis	June-July	6 inches	Rose	.35	3.50	
Fox Glove, Digitalis, Gloxinia-flora	June-Aug.	5 feet	White-Rose	.35	3.50	
Garillardia (Blanket Flower)	Spring & Summer	2 feet	Yellow-Purple	.35	3.50	
Golden Glow, Rudbeckias	Aug.-Oct.	6 feet	Yellow-Crimson	.35	3.50	
Helianthus (Sunflower)	Summer-Fall	4 feet	Yellow	.35	3.50	
Hollyhocks, double	July-Oct.	4 feet	Scarlet-Yellow	.35	3.50	
Iberis, Little Gem	April-Aug.	1 foot	White	.35	3.50	
Iris, Japanese	June	24 inches	Blue	.35	3.50	
Iris, Spanish	June	24 inches	Mixed	.10	1.00	
Myosotis (Forget-Me-Not)	Spring-Fall	9 inches	Blue	.35	3.50	
Papaver (Poppy Oriental)	June-July	2½ feet	Red-Salmon	.35	3.50	
Pentstemon (Barbatus)	Spring-Fall	3 feet	Red	.35	3.50	
Phlox	Fall	2½ feet	White, Red, Pink			
Primulus (Primrose)	April-May	6 inches	Yellow	.35	3.50	
Pyrenthrum, Hybridum	July-Sept.	2 feet	Mixed	.35	3.50	
Salvia (Flowering Sage)	July-Sept.	4 feet	Red	.35	3.50	
Scabiosa	July-Oct.	2½ feet	Blue	.35	3.50	
Sweet William, Dianthus	June-July	24 inches	Crimson, White			
Tritoma (Red Hot Poker)	Aug.-Nov.	3 feet	Salmon, Scarlet	.35	3.50	
Veronica, Spicada	May	¾ foot	White	.35	3.50	
Violets	Spring	½ inches	Blue	.25	2.50	

See page — for description of Sol
Hot Brooders, also Air Blast Brood-
ers.

Our day-old chicks are secured from
a well established, reliable hatchery.
See page —.

66

Germāco

99

Hotkaps



Hotkaps are miniature hothouses, manufactured from wax paper, under which the seed of melons, tomatoes, peppers, etc., can be planted, thereby saving the cost of labor of transplanting. Young plants under HOTKAPS are protected from frost and insects and will mature more quickly than those transplanted.

"Hotkaps" are cone-like in shape, measuring about 11 inches in diameter at the base and coming to a point at the top. They are reinforced by a strip of heavily waxed paper to guard against outside pressure. Rain will not destroy them nor will it injure or lessen their effectiveness in any way.

Price, 1,000, \$1.15 per 100. Less than 1,000, \$1.25 per 100. Less than 500, \$1.50 per 100. Less than 100, 25c per dozen. In lots of 5,000 or more, \$11.00 per 1,000.

Thousand weigh 26 lbs. Add postage.

HOTKAP SETTERS

In placing the "Hotkaps" over the plants, the "Hotkap Setter" will prove very helpful. This is a small steel cone, the exact shape of the "Hotkap" itself, with a handle at the top.

"Hotkaps" are placed in the Setter, and the Setter is then placed on the ground over the plant. Slight pressure on the handle at the top will force both Setter and "Hotkap" into the ground from $\frac{1}{4}$ to $\frac{1}{2}$ inch. The edge of the "Hotkap" protruding from around the rim of the Setter is then covered with sufficient soil to weight the "Hotkap" down. Price, \$2.75; postpaid, \$2.90.

HOTKAP CARRIERS

To make it easier to set them out in quantities, a specially made carrier, holding approximately 150 "Hotkaps," will be found very convenient. Price, \$2.75; postpaid, \$2.90.

Plant Bands



These plant bands are the finest thing in the world to transplant plants of every kind. They are cheap, easy to use, and very satisfactory. They come already folded and set up. All

you have to do is open them, set them in a box close together, and fill with dirt, and put in the plant. The simplest way to handle plants for transplanting is to grow them in our Ready-to-Use Plant Bands. They make an ideal worm guard. When transplanting the old way, roots are exposed to air and with the result that plants are seriously set back. Plants started in these bands and set in the field never know they have been moved. 2x2 inches.

Case 5,000	\$14.75 per case
Less than case	\$3.25 per 1,000
Less than 1,000	.35c per 100
Less than 500	.40c per 100
Less than 250	.15c per dozen

Packed 250 in carton.

Weight of 250, 2 $\frac{1}{4}$ lbs. Add postage.

Plant Pots

Plant pots and plant bands are made exactly of the same material, the only difference being that bands have not any bottom while pots have. You will also notice difference in size. 3x3 inches.

Case 2,000	\$12.50 per case
Less than case	\$6.75 per 1,000
Less than 1,000	.70c per 100
Less than 500	.75c per 100
Less than 250	.20c a dozen

Packed 250 in case.

Weight of 250, 5 $\frac{1}{2}$ lbs. Add postage.

Potatoes

Potatoes can be grown in any soil provided it is well drained, but if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop. It is best to put the manure on one year before the potatoes are to be planted, and in no case raw stable manure should be used, as it is liable to produce scab. In cutting potatoes for planting, do not cut the pieces too small and be sure to have one to three eyes on each piece planted. The constant use of very small tubers should be avoided, or they are likely to run out. The sets should be planted from 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches in the rows.

PRICES—Owing to the great uncertainty regarding values we are unable to make definite prices at present, but quote approximately as follows, purchaser paying all carrying charges: Less than 25 lbs., 6c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00. If you are needing a quantity we prefer that you write for prices as these prices are not guaranteed. Unless otherwise advised we will send full value at prices prevailing at time of shipment for money received. Add postage. Above quotations apply to early and medium varieties.

Early



Bliss Triumph or Six Weeks

BLISS TRIUMPH OR SIX WEEKS—This is recognized as being one of the very earliest varieties grown, and in addition it is also one of the best yielders of the early varieties. Besides these two very important advantages, it possesses a third, namely: its quality; and quality is the great pivotal point at which we are aiming in the production of all our seeds, plants and roots.

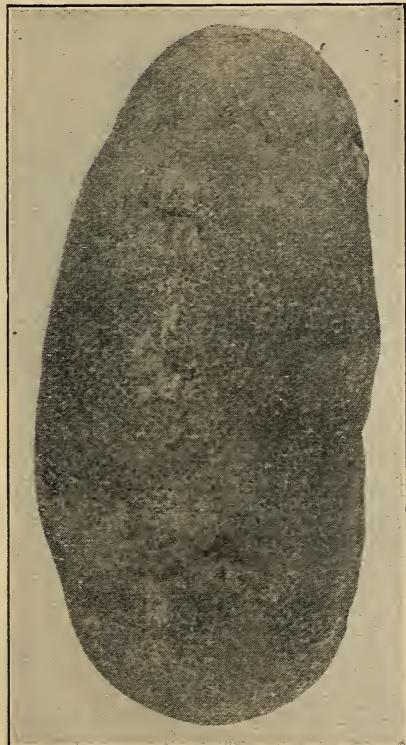
OHIO—A leading early sort. Round, short, and thick tubers, smooth and solid; cooks dry and mealy and matures very early.

EARLIEST OF ALL OR EARLY EUREKA—Is a shallow-eyed white-skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties. While it is a very early potato it is also a good keeper.

Medium

IRISH COBBLER—The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is smooth, finely netted, and white in color. Flesh white of fine quality and flavor.

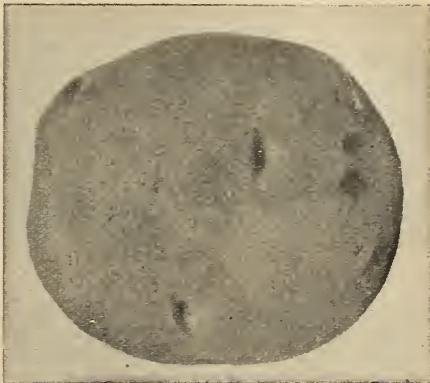
Late



Netted Gem

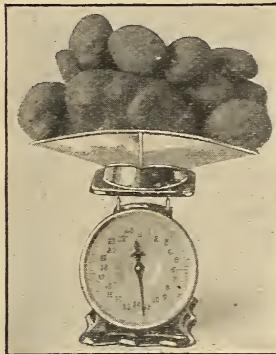
NETTED GEM—The hardiest, most vigorous in growth, most productive, and the best in table quality of all potatoes. It has proved to be unequalled for main crop. The vines are strong, with deep green foliage. In form the tubers are medium long. The eyes are small and there is very little waste in paring. The skin is thin and very smooth with the exception of very small depressions which give it the appearance of being netted and from which it derives its name. The flesh is fine grained and cooks up mealy white. It is very free from scale and one of the very best keepers on the market. 100 lbs., \$2.75. Less than 100 lbs., \$3.50 per 100. Less than 50 lbs., \$4.00 per 100. Less than 25 lbs., 4½ cents per lb. Add postage.

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Earliest of All or Early Eureka

CERTIFIED STOCK



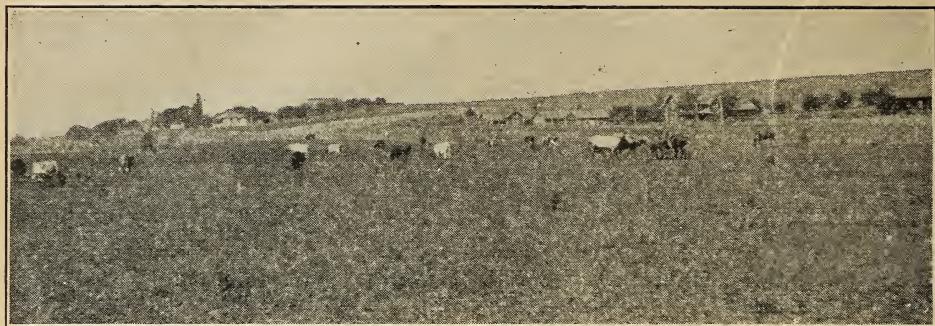
Treated with Semesan Bell

The present arrangement for certified potatoes in the states of Idaho and Washington are a blue tag and a red tag. The blue tag is certified as to variety, freedom of disease and type and has been inspected at least twice in the field, also inspected at time of shipment. Size, from 2 to 12 ounces.

Red tag shows that potatoes have had at least two field inspections but have not been inspected at time of shipment. For this reason we recommend the blue tag and quote certified blue tag Netted Gems, Washington grown, as follows: 100 lbs., \$3.50; less than 100 lbs., 4¢; less than 50 lbs., 4½¢; less than 25 lbs., 5¢. Add postage.

Quotations on all potatoes subject to change.

Clovers



A Scene in the Palouse Country—Sweet Clover.

Great care should be exercised in purchasing grass and clover seeds. This is even more important than with other seeds, for, on account of being perennials, and the land not being cultivated, the farmer has not an opportunity to cultivate and thus destroy any weed seeds that might be sown with grasses and clovers.

Owing to the market changes we cannot quote prices in quantities. When ready to buy, write us for prices, stating quantity wanted, or if you send money, we will ship seed to cover amount received.

Alfalfa or Lucerne

While what is known as the common alfalfa is the most popular and almost exclusively used, still there has been for a number of years other named varieties each claiming to be superior to the common alfalfa. The most widely advertised of these varieties is what is known as Grimm alfalfa. The originator of this variety has the following to say concerning it: "The Grimm alfalfa is much harder than the ordinary kinds. It not only endures extremely low temperatures, but it can be cut with greater safety late in the fall and will bear more abuse in the way of pasturage than any other plant that has been compared with it until this time."

Write for prices on both Grimm and common alfalfa; state quantity wanted.

ALSIKE, or SWEDISH (*Trifolium Hybricum*)

—A perfect hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay and under favorable conditions may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses, stating amount wanted.



Alsike Clover
Write for prices, stating amount wanted.

RED MAMMOTH — Being a rank grower makes it most valuable for fertilizing purposes. Foliage, flowers and stem much darker than common Red Clover; ripens later than the latter, about the time Timothy Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Write for prices, stating amount wanted.

RED MEDIUM (*Trifolium Pratense*) — The standard clover for all purposes, either hay, pasture or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It yields the heaviest crop of any clover except alfalfa, and makes superior hay — especially if mixed with timothy — either for dairy cows or for general use. Write for prices, stating amount wanted.



RED CLOVER.

WHITE DUTCH — (*Trifolium Repens*) — A low, close-growing clover with white blossoms, very fragrant. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. Fancy for lawn. Lb., 60c; add postage. Write for prices, stating amount wanted.

Sweet Clover

On very poor soils, it will thrive only where an abundance of limestone is present. Under such conditions its vigor and wonderful rooting system enable it to secure more plant food from the soil than almost any other crop.

With a favorable season and good stand it can be pastured without injury to plant in about 10 weeks. First season can pasture or cut crop of hay; second season pasture, hay or seed. Most valuable as continuous pasture, when it will reseed itself without thought or care of the grower.

It will never bloat stock, horses, cattle, sheep or hogs, turned out at any time, even in rain or dew. A good stand will pasture 20 head of hogs to the acre. Ring the hogs.

The best results are obtained by sowing in early spring.

WHITE BLOSSOM—(*Mellilotus Alba*)—This lives two years and then dies. It is the variety commonly referred to when "sweet clover" is mentioned and is the best for general use.

It is an erect branching biennial plant with woody stems, the first season growing $1\frac{1}{2}$ to 3 feet high and developing a large root, in which is stored food material for the second season's growth. The growth the second season usually reaches a height of 4 to 7 feet. This seed is hulled and scarified.

YELLOW BLOSSOM—(*Mellilotus Officinalis*)—This variety belongs to the same family as the White Blossom, but it is not so prolific in growth, will not produce so large a tonnage, does not grow quite so tall, but is from ten days to three weeks earlier. This seed is hulled and scarified.

Write for prices, stating amount wanted.

TREFOIL is a fibrous rooted biennial plant, much resembling Yellow Suckling Clover, but the foliage is a paler green, and the flowers not quite so dark.

It is the earliest of the Clovers, and flowers about 14 days before Red Clover.

Being rather dwarf in habit prevents Trefoil from reaching the same standard in value for mowing as other taller growing Clovers, but it produces a large quantity of nutritious herbage, which is readily eaten by cattle.

Trefoil is rarely sown alone, but is recommended to be included in mixtures at the rate of 1 to 3 lbs. per acre. Price, lb., 60c postpaid.

Grasses

BENT-CREEPING—Being of fine texture this grass is most valuable for lawns and ideal for putting greens. It is of rapid growth and spreading habit and makes a strong, enduring turf. Lb., \$1.25; add postage.

BLUE CANADIAN (*Pea Compressa*)—A hardy variety growing on poorest and driest soils. Short (6 to 8 inches), hardy and wiry, but high in nutritive value. Decidedly blue in color. Stems flattened. Invaluable for use on steep places or exposed situations. Write for prices, stating quantity wanted.

BLUE, ENGLISH OR MEADOW FESCUE (*Festuca Pratensis*)—A variety growing three to four feet high. Roots, deep, and resists drouth better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pasture. Valuable to mix with other kinds. Write for prices, stating quantity wanted.

BLUE KENTUCKY—This makes the best, sweetest and most nutritious pasture for all kinds of stock. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. The roots are so thick and stout as to form a tough sod. Blue grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Sometimes called "June Grass." Lb., 60c; add postage. Write for prices, stating quantity wanted.



KENTUCKY
BLUE GRASS.

BROMUS INERMIS—(Awnless Brome Grass)—Withstands drouth well. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It is an abundant producer of leaves and is much relished as pasture and hay. Write for prices, stating amount wanted.

FESCUE CHEWINGS—(*Festuca fallax*)—Chewings fescue is a small, hardy, low growing grass producing very fine dark green leaves, which rarely exceed 6 inches in height and in growing have a dense turf forming habit.

As a lawn grass, the most attractive and distinctive features of Chewings Fescue are: Its very fine leaves, short, dense growth, dark green color, and the good sod the grass produces—all of which contribute to that fine carpet-like effect so desirable. Chewings Fescue is a permanent grass and its turf improves with age. A special point in its favor is its durability on the poorer types of gravelly and sandy soils. Lb., 65c, postpaid.

FESCUE HARD—(*Festuca durinscula*)—Differs from sheep's fescue in having harsher, firmer and thicker blades and forms smaller tufts. Thrives in the shade. Deep green in color, it grows to the ground and stands clipping and pasturing well. Reaches a height of 20 to 25 inches. Lb., 65c, postpaid.

FESCUE SHEEP'S—(*Festuca ovina*)—Sheep's Fescue is a bunch grass, forming dense tufts three to six inches in diameter, with numerous stiff, rather sharp, nearly erect, bluish gray leaves, two to four inches long. The plant grows 20 to 25 inches high. While the grass is decidedly tough and has a tendency to get woody it is nutritious and eagerly eaten by sheep and to a less degree by cattle. It does fairly well on light, sandy soils where the other more valuable pasture grasses fail. Lb., 65c, postpaid.



ORCHARD GRASS.

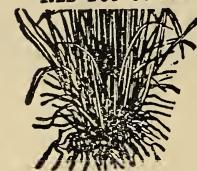


ORCHARD—It stands the drouth, grows well in the shade, does well in wet or poor ground. This grass furnishes excellent pasture three weeks before any other, and after close gazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. Write for prices stating quantity wanted.

RED TOP (*Agrostis Vulgaris*)—A valuable grass for moist, rich soils where it thrives very luxuriantly. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. It should be fed close, as, if it is allowed to grow up to seed, the cattle dislike it. On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass and it should be more extensively grown, especially in combination with other grasses. Hulled Seed. Write for prices, stating the amount wanted.



RED TOP GRASS.



RYE, ENGLISH (*Lolium Percune*)—This is a valuable pasture grass which will bear close cropping. Produces an abundance of foliage, which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better in cool, moist locations. Write for prices, stating quantity wanted.

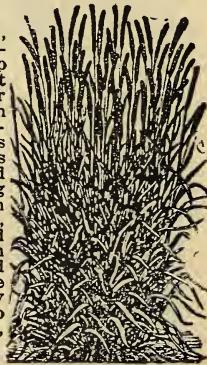
RYE—ITALIAN (*Lolium Italicum*)—A quick-growing grass, attaining a height of $2\frac{1}{2}$ to 4 feet. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Write for prices, stating quantity wanted.

SUDAN GRASS is strictly an annual and dies each year, reaching a height of from seven to nine feet. The stems are small and rarely thicker than a lead pencil. The plant stools wonderfully and produces under favorable conditions as many as 100 stalks from a single root.

SEEDING—Sudan Grass should not be planted until the soil has become warm in the spring. It can be sown any time during the summer as a catch crop so long as 70 to 80 days intervene before the date of the first expected frost. The grass stools abundantly after first cutting.

Lb., 20c; add postage. Write for prices.

TIMOTHY — On moist, loamy or clay soils it produces a larger hay crop than any other grass. It is not so well suited for light, sandy soils. Though preferring moist, temperate climate, it withstands extreme heat and cold. Its hay is very nourishing and can be preserved for a long time. It should be cut when flowering, as, if left later, the hay becomes hard and coarse. It is often sown along with Red Clover, and the nutritive value of the hay is greatly increased by the mixture. Height, 2 to 3 feet. Write for prices, stating amount wanted.



TIMOTHY.

Lawn Grass

The most important thing to consider in selecting seed for lawn grass is to obtain a proper mixture. Our Clover Leaf mixture will give a green, smooth, velvety sod with a thick bottom and free from such varieties of common grasses as produce clumps. Do not put stable manure on your lawn, as it adds to the many weeds already in the soil, and if not broken up, the lumps of manure will smother the young grass.

In order to keep a lawn continually beautiful, it should receive frequent applications of fertilizers.

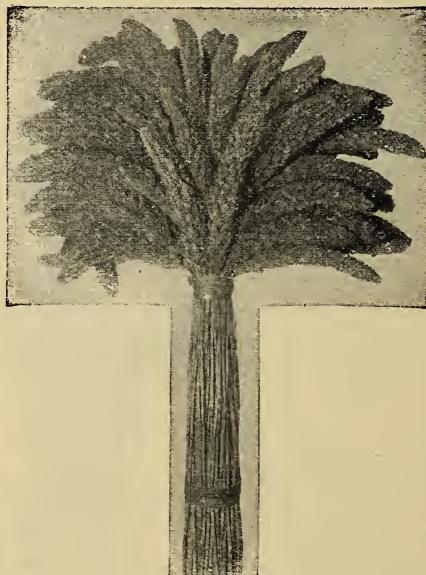
CLOVER LEAF LAWN GRASS—Lb., 60c, add postage. Write for prices, stating quantity wanted.

Millets

The Millets are a valuable crop for the farmer who has lost his seedling, or for some other reason expects to be short of hay, for in 8 or 10 weeks from sowing it is ready to cut for hay.

Millet can be sown as early as the middle of May, or as late as July 10th, although when sown July 10th, the crop comes so late in September that it is hard to cure on account of the cool weather and shorter days.

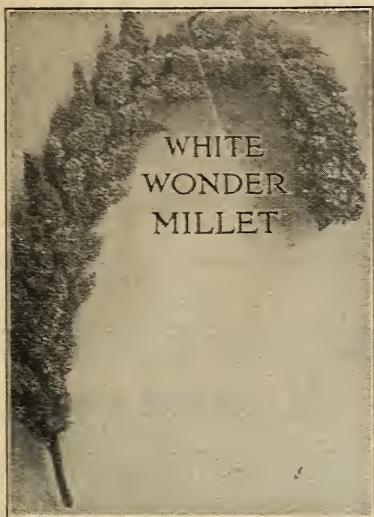
EARLY FORTUNE MILLET—Has given astonishing yields of both seed and fodder. It is very early and is claimed to be rust-proof. The fodder can be fed to horses and other stock without injury, even after the seed has formed which can not be done with safety with most of the millets. The seed is large and of a beautiful red color.



Golden Millet

GOLDEN—This grows very rank and is one of the best varieties for hay or fodder. On good rich soil it will make a growth of 4 or 5 feet high, and although the hay may seem coarse, yet it is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily.

HOGS—Very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green; thus, if cut promptly can be threshed for the seed, while the hay after being threshed will make excellent fodder.



WHITE WONDER MILLET—The most striking feature of White Wonder Millet is the size of the heads, making it a very heavy yielder. The heads will run from eight up to eighteen inches and a single head will have as many as 15,000 seeds.

The foliage is very heavy, the leaves broad, and therefore produces an immense amount of excellent fodder which cures very readily.

SIBERIAN, OR RUSSIAN—Is claimed to be from two to three weeks earlier than the Golden Millet, that it is a much heavier cropper, that the hay is much finer, stalks more elastic and grows much taller, that it is rust-proof, and being of stooling habit, requires much less seed per acre.

Write for prices on Millets, stating quantity wanted.

Peas, Field

Field Peas are a very profitable crop and should be grown very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are very fattening.

CANADIAN WHITE—A leading kind; seed almost white; a heavy cropper. Lb., 15c; postpaid.

GREEN—A very productive variety yielding as much as Canadians, but has less straw and is earlier. Lb., 15c, postpaid.

COW—Cow Peas are more tender than Canada or Field Peas and should not be sown until corn planting time. Cow Peas, being of very rapid growth during the warm weather, can be sown as late as the middle of July with reasonable assurance of a profitable crop, either for harvesting or plowing under. Are really small beans of vigorous vining habit and heavy foliage.

NEW ERA COW PEAS—A new, extra early variety, the quickest growing of any of the

Cow Peas, maturing in about 60 days; specially adapted for planting north. Lb., 25c, postpaid.

WHIPPOORWILL—A brown, speckled, medium sized pea. A very prolific seed yielder; matures about ten days later than the New Era; upright and vigorous grower. Lb., 25c, postpaid.

Write for price on all field peas, stating variety and amount wanted.

Rape

DWARF ESSEX—Perfectly hardy and of remarkable fattening properties. Easily grown. Pigs, sheep and cattle are all extremely fond of it. A very rank grower and bears heavy manuring and high cultivating. Sow at intervals of several weeks and secure a supply of good feed. If soil is rich and clean, sow broadcast, otherwise in drills and cultivate same as corn. Lb., 20c, postpaid. Write for prices, stating amount wanted.

Buckwheat

JAPANESE—This variety excels all others; yield much heavier; ripens one week to ten days earlier; stands up better and makes better flour. Excellent for bee pasture. Lb., 20c, postpaid.

SILVER HULL—A very good and popular variety. Grain is of light gray color; has a thin husk; matures early and yields heavy. A good milling variety. Lb., 20c, postpaid.

Write for prices on buckwheat, stating kind and amount wanted.

Vetches

SPRING — A pealike plant grown extensively in England and to a considerable extent in Canada for stock feeding, but not as much used in the United States as it should be. Lb., 15c. Add postage

WINTER-SAND OR HAIRY (*Vicia Villosa*)—It belongs to the pea family, but the vines are much longer and the foliage more abundant. It is advisable to sow oats, barley or rye, etc., with Vetch, which serves as a support for the plants. A sowing in August or September covers the ground before winter. Can also be sown in April and will be ready to cut by the middle of July, the second growth affording excellent hog pasture during the summer. The yield of

forage varies from ten to fifteen tons per acre, equal to three or four tons when cured as dry hay. Lb., 20c; add postage.

Write for prices on vetches, stating variety and amount wanted.

Miscellaneous Field Seeds

Write for prices on all varieties of field seeds, stating quantity wanted.

BROOM CORN, IMPROVED EVERGREEN— This is the most popular variety of broom corn to grow for the market, the brush being firm and of good length, and retaining the light green coloring when properly cured. Lb., 20c; add postage.

FETERITA—It belongs to the Sorghum family. The advantages claimed for Feterita are its drouth-resisting qualities, its heavy yield, its earliness, its stooling propensities and its freedom from insect pests. Lb., 20c; add postage.

FLAX SEED (Recleaned for planting)—Lb., 20c; add postage.

KAFFIR CORN—Grows 4 to 5 feet high. The stem or stalk bears numerous wide leaves. The stalks are brittle and juicy, not hardening like other varieties of sorghum. Lb., 20c; add postage.

KALE—(Thousand Headed)—The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government stations. Post-paid, oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; $\frac{1}{2}$ lb., 60c; lb., \$1.00.

LENTILS—Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are used largely for soups. The leafy stalks make good forage. Lb., 20c; add postage.

MILO MAIZE—This is one of sorghums similar to Kaffir Corn. Grows erect, with thick, close-jointed stalk. Height, 4 to 7 feet. See remarks under Sugar Cane relative to thorough trial. Lb., 20c; add postage.

SUGAR CANE—Is supposed to be grown to advantage any place where you can produce a good crop of corn.

EARLY AMBER—This is the earliest, richest and altogether the best sort for northern latitudes. Lb., 25c; add postage.

Sunflowers

SUNFLOWER—(Large Russian)—Although the sunflower (*Helianthus Annuus*) is a native of North America, and has grown in nearly every garden in this country, it is only in recent years that it has been recognized as a forage plant. The earliest record of sunflower cultivation is found in Spain about 350 years ago. It adapts itself to a wide range of soil and climate, responding to rich soil and good cultivation much like the corn plant. It has been extensively cultivated for its seed, which are very rich in oil. In this country, the seed has been extensively used as poultry food. Lb., 15c; add postage. Write for prices, stating amount wanted.

Grain

In securing your seed grain it should be selected because that each grain has been well filled and thoroughly matured, because it has all ripened at the same time, and because of its freeness from all seeds that can not be separated from the grain. Kindly write us, asking for prices and state the amount wanted. Stating the amount is very important, as we do

not know whether an inquirer wants one hundred pounds or a ton. In case amount is not stated we always quote price on a small amount. You are therefore depriving yourself of our best prices should you want a quantity. Write for prices on all varieties of grain, stating kind and amount wanted.

Wheat

There is wheat and wheat, and it is penny wise and pound foolish to sow inferior quality. This inferior quality may be because the grains have not been fully developed or on account of impurity, or on account of improper cleaning. We guard against all three, hence our quality is right.

Winter—Jones Fife, Martin Amber, Gold Coin, Ridit.

Spring—Bluestem, Marquis, Early Bart, Federation.

Write for prices, stating quantity wanted.

Oats

We handle the varieties mostly grown. Our quality will be as good as careful selection and recleaning can make them.

Markton Oats



The outstanding features of Markton oats are its immunity to covered smut and its superior yield. It is an erect, mid-tall, mid-season variety with a branching panicle. One of its distinguishing characteristics is the presence of hairs on the clump at the nodes. The kernels of Markton are yellowish white, long and slender and have a rather thin hull.

The lot of seed from which the Markton oat was later selected was obtained in 1904 by M. A. Carleton from the exhibit of Louis Dreyfus & Co., at the Louisiana Purchase Exposition, held

in St. Louis, Mo. The original source of the seed was recorded as Dedeagatch, Turkey.

It was brought to the Washington Experiment Station from the Sherman County Branch Station at Moro, Oregon, in 1919. It was included in the experiments at Pullman, where its comparative yield was determined and in addition found to be immune to covered smut. The following yield data are taken from the annual report of the experiment station.

Comparative Yields of Oats, Taking Banner as the Standard.

Variety	Yield 1926	No. Tests	Per Acre Yld. Cent	Bushels
Markton	65.4	9	106.8	87.5
Victory	64.7	8	102.1	83.6
Banner	64.4	25	100.0	81.9
Swedish Select	53.4	25	91.2	74.7
Sixty Day	58.1	25	82.5	67.6

It is fortunate that the characters of immunity to smut, high yield and good quality could be combined in a single variety of oats.

Present quotation, Dec. 1, 1928: \$4.00 per 100 lbs. Price not guaranteed. Write for prices, stating quantity wanted.

Barley

BEARDLESS—Two strong features distinguish the Beardless Barley above all other barleys; first, its great yielding qualities; second, its freedom from the troublesome beard. It is on this account not only much more agreeable to handle in threshing than other barleys, but it is much safer and better to feed to livestock. As a fattening agent for swine Beardless Barley is particularly valuable.

Write for prices, stating quantity wanted.

Rye

Rye is a valuable and very hardy crop, producing green fodder either in the early spring or late fall. It matures before other crops come in and can be sown on soil too poor for other cereals. Rye does not exhaust the soil as do other grains and can be cultivated longer on the same land than any other crop on the farm.

SPRING RYE—Spring Rye is an excellent catch crop where winter grain has been killed out, or for sowing where a full crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Price, 100 lbs., \$3.00.

WINTER RYE—Rosen Rye is a stiff-strawed, large headed variety which ordinarily has four full rows of grain on over 99 per cent of its heads. It yields much better than the common winter rye, is very hardy and seldom winterkills.

Rosen Rye outyields common rye from 25 to 50 per cent. Price, \$3.00 per 100 lbs.

Write for prices, stating amount wanted, or we will fill all orders at price prevailing on date of shipment, sending grain for the amount of remittance received.

Kill the Smut in Your Grain

If there is smut in your grain destroy it by using bluestone or formaldehyde. This trouble is becoming very prevalent, and must be destroyed if wheat is to keep up its high grade of milling qualities. See page 86 for directions.

Nursery Stock

In compliance with requests from many of our customers for nursery stock we are listing the following varieties, but desire to state that this nursery stock is not of our own growing, but that we are securing it from

sources that we believe to be thoroughly reliable and have every reason to believe that it can be relied upon as being dependable and trustworthy. Make an examination of shrubbery and trees as soon as received, and should there be any reason for complaint we ask that this be reported at once, as the growth of the root depends largely upon manner of planting and care afterwards. Therefore, if a root is in good condition when received, we feel that we have done our part and cannot be responsible for non-growth, as it is evident that the reason for non-growth has been due to some local conditions for which we cannot be held responsible.

Add 10c for postage when your order only calls for one root and 3c per root when three or more are ordered. This will equalize postage charges, though in some cases this postage will be too much while in other instances it will be too little.

VINES AND CLIMBERS

Ivies

BOSTON IVY—Japanese Ivy. Best known and most popular climber for chimney, brick and stonework. Graceful and showy foliage, thrives under all conditions. Each, 50c, 75c.

ENGELMANNI—Deeply cut leaves which turn to a beautiful crimson in fall. Clings to walls without aid of artificial support. Vigorous growth. Each, 50c, 75c.

VIRGINIA CREEPER OR AMERICAN IVY—Fast growing, hardy creeper, massive foliage, deeply cut leaves which turn to a beautiful crimson in fall. One of the very best for porches, trees, rocky slopes, etc. Each 50c.

CLEMATIS

Popular vines for covering porches, trellises and arbors, and to climb over tree trunks, posts and fences. They are free flowering and very showy. The first two are large flowered varieties, blooming in late spring and summer.

HENRYI—Large single white flower, most popular of its color. Each, \$1.00.

JACKMANI—Large velvety dark purple flower, very showy. Each, \$1.00.

MONTANA—Clusters of sweet anemone like white flowers in late spring. Vigorous and hardy and very showy in flower. Each, \$1.00.

PANICULATA—The late flowering, Japanese variety with panicles of small white fragrant flowers borne in great profusion in early fall. Very desirable, entirely hardy. Each, 50c, 75c.

VILLE DE LYON—Large, red, very desirable. Each, \$1.00; add postage.

HONEYSUCKLES

HONEYSUCKLE—Favorite vines with fragrant flowers strong growers and well adapted for trellis work, on fences and verandas and especially beautiful when allowed to grow in wild and natural way, for covering sheds, rock heaps, old tree stumps and unsightly places. Their vining qualities are all that can be desired, but the delightful fragrance of their flowers makes their strongest bid for favor.

BELGIA OR EVERBLOOMING—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each, 50c, 75c.

HALL'S JAPAN—Practically evergreen, retaining its rich dark green foliage most of the winter. Blooms continuously from June until frost; fragrant, white and yellow flowers, in great abundance. Each, 50c, 75c.

SCARLET TRUMPET—Trumpet shaped flowers of bright scarlet. Each, 50c, 75c; add postage.

WISTARIAS

Strong-growing, free-flowering climbers. They are hardy and ornamental, but require deep, rich soils and the occasional use of fertilizers, to obtain best results. When well established, a greater abundance of the lovely flowers can be had by rather severe pruning, cutting back the lateral shoots to short spurs and heading back the leaders conveniently, taking care, however, not to overdo it. The grafted Japanese varieties are strongly recommended as superior to the seedlings.

JAPANESE PURPLE—Grafted purple variety, vigorous and tall growing vine with bright green foliage, flower light purple in loose drooping racemes 12 to 30 inches long. Fine anywhere that a vine may be used but especially good on arbors and pergolas where the long racemes may hang through. Price, \$2.50.

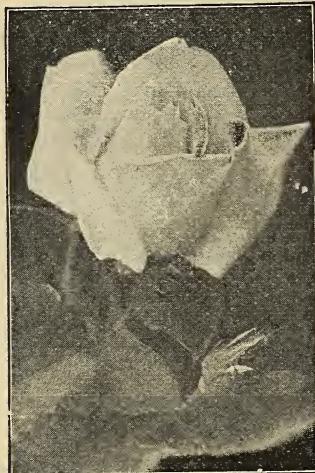
JAPANESE WHITE—A grafted white flowered form, racemes very long and beautiful. Each, \$2.50.

Common purple, each 75c, \$1.00, \$1.50.

Common white, each 75c, \$1.00, \$1.50.

Add postage.

BEST HARDY PERPETUAL ROSES



Two Year Old. Each, 60c; add postage.

AMERICAN BEAUTY—One of the largest, sweetest and best; rich rosy crimson, shaded and veined in a most charming manner.

CONRAD F. MEYER—A most valuable addition to the list of hardy, free-blooming roses. The color is beautiful pure silvery pink.

FRAU KARL DRUSCHKI—Many rose-lovers call this beautiful rose "Snow-Queen"; others simply call it the "White Rose." The blooms are very large, sometimes reaching nearly 6 inches in diameter. The growth of the plant is strong and vigorous, and it bears blooms abundantly in June.

GENERAL JACQUEMINOT—The old favorite "Jack" Rose is still popular. The blossoms are large, full, and globular, having an excellent cup-shaped form. In color they are brilliant scarlet-crimson, with deeper veining toward the petal bases.

GEORGE ARENDTS—Strong-growing plant, bearing an abundance of well-shaped delicate

pink flowers. A very satisfactory sort which has been largely planted.

GEORGE DICKSON—It is one of the best dark roses in existence. The blooms are as nearly perfect as those of any rose, large, full and fragrant. The color is deep velvety crimson, almost black on the front of the petals, while the reverse side is heavily and deeply veined with rich crimson-maroon.

GRUSS AN TEPLITZ—One of the best garden roses, giving many beautiful flowers from early June until frost kills the buds. The flowers are crimson-scarlet, bright enough to attract the attention of the observer, but not vivid enough to throw other sorts into the background.

HIS MAJESTY—A magnificent new rose of wonderful growth and hardiness. Produces blooms of immense size on fine long canes. Color, dark crimson, shaded deep vermillion towards the edges.

HUGH DICKSON—Intense crimson, shaded scarlet; very large; full and magnificent form, with high pointed center. Delightful perfume. A gold medal rose.

MARSHALL P. WILDER—Bright cherry carmine, very fragrant; one of the finest bloomers.

MRS. JOHN LAING—Extremely large blooms of soft pink. Long buds; cup-shaped, fragrant flowers. Strong grower, free bloomer. A very popular rose.

PAUL NEYRON—The largest rose in existence, frequently reaching 6 inches in diameter. The color is clear pink, shading to soft rose; has a delightful fragrance. The plant is a strong, heavy grower and blooms several times during the season.

PRINCE CAMILLE DE ROHAN—One of the darkest colored roses; very dark velvety crimson, changing to intense maroon. A very prolific bloomer, and flowers are of excellent form and size.

URICH BRUNNER—Extra-large flowers of light red, bordering on scarlet or crimson—a shade of red distinctly its own. The flowers are borne in profusion on long stems. A very vigorous grower. A variety of standard excellence.

HARDY EVERBLOOMING HYBRID TEA ROSES

Two Year Old. Each, 60c; except where quoted; add postage.

Cream and White

FRAU KARL DRUSCHKI—The white American Beauty. Makes splendid buds and immense flowers. Each, 50c.

DUCHESS OF WELLINGTON—Intense saffron-yellow stained with rich crimson. Very large and fine form. Beautiful in-bud as well as open flower.

ETOILE DE LYON—Clear, bright, golden yellow; makes beautiful buds and is very double and sweet.

KAISERIN AUGUSTA VICTORIA—Pure white, does not pink when planted out; splendid large buds and superb, full, double blooms. A most sturdy grower, blooming steadily from early spring until late frost. Each, 75c.

VISCOUNTESS FOLKTONE—Creamy-white, deep salmon-pink center; large, full; produced in great profusion and opening freely.

WHITE LA FRANCE—Large and finely formed buds and blossoms having broad petals of silvery white with very delicate pink shadings. A fragrant, free and continuous bloomer.

Crimson and Red

EDWARD MAWLEY—One of the finest roses known. The buds are deep purplish crimson, opening to extra-large, perfectly formed blooms of dark blackish crimson.

ETOILE DE FRANCE—Intensely brilliant crimson. A very free bloomer and a most excellent rose.

HOOSIER BEAUTY—A large, full flower with well shaped buds; color is an exceptionally attractive glowing, velvet crimson. Each, 75c.

LADY BATTERSEA—Lovely wine-red; very long pointed buds and large, full and double blooms.

RICHMOND—Originated by an experienced American grower. The blooms are very large and full. The color is a beautiful scarlet-crimson. For several years Richmond has been considered one of the best roses of American origin, and it well merits this distinction.

Pink Shades

KILLARNEY BRILLIANT—The introducers describe it in these glowing words: "An improvement on the original Pink Killarney, because of its more brilliant color, which is almost crimson in bright weather. One of the best of the recent originations and very popular."

LA FRANCE—This was the very first Hybrid Tea Rose. The flowers are large and have a beautiful globular shape. In color a bright pink on outside of petals, and a lovely silvery pink on the inside. The leather-like foliage is deep beech green in color, contrasting nicely with the handsome blooms.

MADAME ABEL CHATENAY—A good grower and perpetual bloomer; large and beautiful in bud and bloom. Deep rose pink.

MME. CAROLINE TESTOUT—A grand rose, with large full flowers and handsome buds; rich pink. The hardiest of the Teas. Each 50c.

OPHELIA—Brilliant, salmon-shaded with rose on outer edges of petals with a heart of glowing peach-pink and orange-yellow blendings; handsome bright foliage, immune to mildew. Each, 75c.

Yellow

BETTY—One of the points of excellence that recommends Betty is its long blooming period—from June until frost. The blooms are extra large in size, full and globular in form, with a delightful fragrance. The color is a coppery rose overspread with golden yellow. Very good autumn bloomer. Each, 75c.

MABEL DREW—Sturdy, erect growing, with large, full perfectly formed flowers. Creamy yellow buds passing to intense canary yellow as the flower expands.

MADAME JENNY GILLEMET—Rich amber yellow, deepening in the center to orange and copper color, delicately tinged with crimson. Fine long pointed buds and large full flowers.

MRS. AARON WARD—One of the most beautiful roses of recent years in a color that catches the eye at once. A deep golden orange shading to lemon or creamy yellow at the edge of the petals. Each, 75c.

SUNBURST—The introducer of this wonderful rose describes it in these words: "Sunburst is a vigorous grower of robust constitution, with erect or slightly spreading habit and few thorns; fine reddish green bronzed foliage. The buds are long and generally borne on long stout stems; the flowers are large, full, and of fine elongated, cupped form. The color is a superb cadmium-yellow passing to yellow-orange in the center." Each, 75c.

NEW EVERBLOOMING ROSES

Two Year Old. Each, \$1.00; add postage.

COLUMBIA—A splendid, large fully double rose of very lasting qualities. It is a strong, almost thornless, and the brilliant rose-pink flowers are most attractive.

GORGEOUS—Flowers are large and full. Deep orange yellow and heavily vined with red-dish copper, the most charming and gorgeous colorings that have yet been produced.

LADY HILLINGDON—Deep apricot yellow; long and pointed buds. Excellent for cutting.

LOS ANGELES—One of the finest roses ever introduced. In color a luminous flame-pink, with coral and shaded with translucent gold at the base of the petals.

LOUIS CATHERINE BRESLAU—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

MADAME BUTTERFLY—The buds are a lovely shade of Indian red, yellow at the base, unique for corsage and low table decorations; the opening flowers are perfect in form and texture, clear and brilliant in color and of delicious fragrance.

MISS LOLITA ARMOUR—Bud medium; flowers large, cupped, double borne, several together, on long stems; very fragrant. Color, chrome-yellow at base, shading copper; reverse of petals with brilliant copper suffusion. Growth vigorous, bushy, upright. Each, \$1.00.

MRS. HENRY WINNETT—The finest of all red or crimson varieties. The buds are long and well formed. A superb red rose.

OLD GOLD—Vivid reddish-orange, with coppery-red and apricot shadings; strong, mildew-proof and free.

WILLOWMERE—Carmine-coral red bud, opening rich, shrimp-pink, shaded yellow in the center and tinging to carmine-pink at the petal edge. A very beautiful rose.

HARDY CLIMBING ROSES

Each, 60c, except where otherwise quoted; add postage.

AMERICAN PILLAR—Flowers three or four inches across, of pleasing apple-blossom pink, with clear white eye and cluster of yellow stamens.

CLIMBING AMERICAN BEAUTY—Heavy strong grower; hardy everywhere. Color rich red passing to crimson. Very popular.

CLIMBING GRUSS AN TEPLITZ—A perfect sheet of crimson when in bloom. It's the same as the Bush Teplitz. Each, 75c.

CRIMSON RAMBLER—One of the best Roses known today. Hardy as oak; withstands every climate; grows rapidly and blooms all season long. Double deep crimson flowers borne in large clusters. A plant under favorable conditions grows to a great height the first season.

DOROTHY PERKINS—Beautiful shell-pink color, which holds for a long time, fading finally to a lovely deep rose. Free of mildew.

DR. W. VAN FLEET—Large, fully double flowers of a dainty flesh pink with rosy center. Flowers are of perfect form with reflex petals and are carried on long stems suitable for cutting.

EXCELSA—Red Dorothy Perkins. Intense crimson-scarlet; double flowers in brilliant clusters set in glossy shining foliage which never mildews or spots.

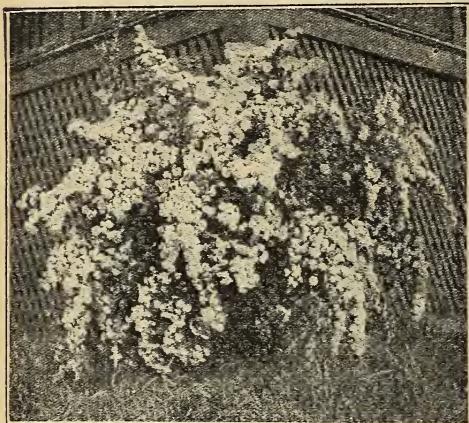
PAUL'S SCARLET CLIMBER—Vivid scarlet, shaded crimson; makes a brilliant display for a long period of time.

TAUSENDSCHON—Mult. Differs from every other rose because the large clusters of flowers vary in color from pink to white, the buds on first opening being a light cherry-pink, changing when fully open to delightful rosy carmine, fading white. Well merits the name "Thousands of Beauties." Strong, vigorous grower.

WHITE DOROTHY PERKINS—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety; but having pure white flowers.

YELLOW RAMBLER—Pure, bright yellow, same type and growth as Crimson Rambler.

FLOWERING SHRUBS



Spirea

ALMOND—Spring flowering shrubs, gaily in full bloom before the leaves appear. Their growth is dwarf, bushy and compact; slender branched; when in bloom completely hidden by beautiful, double flowers of rose or white, snuggling tight to the twigs. Double White and Double Pink, 2 to 3 feet, \$1.00; add postage.

ALTHEA—(Rose of Sharon)—Bloom late in August and September, with a profusion of large bright colored flowers. Each \$1.00.

BARBERRY—BERBERIS

A valuable group of low growing shrubs, admired for their early yellow flowers, good foliage, and brilliant fruit that clings along the leaves and branches at a time when few other shrubs are attractive.

COMMON—Sturdy, erect-growing shrub, with grooved, spiny branches and light green, prickly leaves; golden yellow flowers in spring, followed by bright scarlet fruits in autumn, which persist through the winter. Two to three feet, each, 50c; 3 to 4 feet, each 75c.

THUNBERG'S JAPANESE—Hardy, dense low-growing shrub, with spreading, deeply grooved, thorny branches and small, bright green, oval leaves that turn to brilliant shades of orange and yellow in autumn; the large, bright red berries remain on the bushes throughout the winter. Each, 35c, 50c, 75c.

PURPLE—A showy and effective shrub with purple leaves; yellow flowers in May; reddish purple berries in autumn, which persist nearly all winter. Each, 75c, \$1.00; add postage.

CRANBERRY—HIGH BUSH

Handsome, dense, brilliant green foliage, a rich setting for large bunches of crimson berries which enliven the late summer and persist on bare branches into the winter. Two feet, each, 50c; 3 feet, each, 75c; 4 to 5 feet, each, \$1.00, \$1.25, \$1.50; add postage.

DEUTZIAS

An ornamental shrub that is grown because of its profusion of showy white flowers in spring or early summer. A thinning out of the old wood soon after the flowering season will be of advantage, but this should be done with caution for the greatest bloom is obtained from plants that have had a minimum of pruning. Very effective for borders of shrubberies.

LEMOINES—Small, spreading shrub that is vigorous in growth and produces large white flowers. Very effective for border planting, 12 to 18 inches, each, 50c; 18 to 24 inches, each, 75c.

PRIDE OF ROCHESTER—A distinct and vigorous-growing variety that comes into bloom early and delights the eye with its large, double, white flowers which are tinged with pink in the bud, 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c; add postage.

DOGWOOD—CORNUS

DOGWOOD—(*Cornus*)—The shrubby dogwoods are mainly valuable for the brilliancy of their barks and berries and the handsome variegations of their foliage.

SIBIRICA—Clusters of fine white flowers in summer, succeeded by ornamental berries in fall; stem and branches turning to blood-red in winter. Each 75c.

LUTEA—A striking yellow-branched form of *Stolonifera*. Each 75c.

ELEGANTISSIMA—Variegated, silver-leaved. Each, 75c.

FLOWERING CRABS

ATROSANGUINEA—Dark red flowers. The buds are deep purplish red, and the entire flower tinged purplish.

BECHTEL'S DOUBLE FLOWERING CRAB—One of best; vigorous; fragrant, large, double flowers, delicate shell pink.

FLORIBUNDA—Japanese; profuse rose-colored flowers followed by red fruit. Each, \$1.00 to \$2.00.

FORSYTHIAS

One of the first plants to flower in early spring, blooming before the leaf buds burst on other plants in exquisite splendor and brilliancy. They thrive in almost any fertile soil, but should be planted where they will receive the benefit of the early spring sunshine.

FORTUNEI—Bark bright yellow; blooms in dense masses of golden flowers in early spring.

INTERMEDIA—Flowers bright golden; foliage glossy green like *Virdissima*, but harder than that variety.

SUSPENSA (Weeping Forsythia)—A very useful shrub with a wealth of slender, vine-like, drooping branches, and profusion of golden bell-like blooms. All varieties of Forsythias. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00; add postage.

HYDRANGEA

A well known and favorite class of shrubs, including some of the most showy flowering plants that are found in cultivation. They grow easily, have no insect enemies and are all of them hardy in the Pacific Northwest. One of their best features is that they bloom profusely from July to September, when flowers are comparatively scarce.

HILLS OF SNOW or **Snowball Hydrangea**—One of the most showy of the Hydrangeas, with its profusion of snow-white clusters of flowers decorating the plant most of the summer similar to the well known snowball in appearance. Very showy. Each, 50c, 75c, \$1.00.

PANICULATA GRANDIFLORA, LARGE FLOWEDED—A grand plant, showy and attractive, remaining in bloom for a month. Flowers are pure white, afterward changing to pink, and are borne in immense clusters, beginning in July and holding them until October. Will bloom same season planted. Remember that they should be pruned back heavily in the early spring before growth starts, to two or three buds as they form their flowers in panicles on the end of the season's growth. 18-inch, 60c; 24-inch, 75c; 30-inch, \$1.00; add postage.

LILAC

Without a doubt among the most popular of the early spring bloomers. Their bright green foliage and large, showy, fragrant panicles of flowers contribute brightness and perfume to the landscape.

CHARLES JOLY—One of the most striking dark varieties; color deep red; large, double flowers produced in well-shaped trusses.

CHARLES X—A strong, rapid grower; leaves dark and shining; trusses large and rather loose; color reddish purple; single.

CASIMIR PERIER—The finest double white Lilac yet introduced. The individual flowers, which resemble miniature Tuberoses, as well as the truss, are of immense size, deliciously scented; fine for cutting.

SOUV. LUDWIG SPAETH—Flowers exceedingly large, single, dark purple, forming immense solid clusters of great beauty.

All lilacs, each, 2 ft., \$1.00; 3 ft., \$1.50.

QUINCE FLOWERING

QUINCE JAPAN OR FLOWERING (*Cydonia Japonica*)—Low spreading shrub, the branches of which are armed with formidable thorns. In early spring the branches are hidden by the wealth of dazzling scarlet flowers. The quince-shaped fruits are quite fragrant. 12 to 18 inch, 50c; 18 to 24 inch, 75c; 2 to 3 feet, \$1.00; add postage.

SNOWBALLS

Hardy, upright, mostly rather large shrubs of good, compact habit, neat foliage, white flowers in showy clusters. The bloom is very profuse and the flowerheads of large size. Fine for planting along shrubbery or roads; some species will make a showy appearance if planted alone on the lawn.

COMMON—The old-fashioned favorite with large, globular clusters of white sterile flowers blooming the latter part of May. Very useful for specimens or for planting in groups. 50c, 75c, \$1.00.

DOUBLE JAPANESE (*Pilatum*)—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers like real balls of snow; covered with bloom for weeks in the spring. Grows 4 to 6 feet high; entirely hardy, needs no protection; splendid for dooryard, lawn and cemetery planting. Two feet, each, \$1.00.

SINGLE JAPANESE (*Tomentosum*)—Rather tall, vigorous grower, with spreading branches, rich olive-green foliage, bronze-margined; flowers white, in flat-topped clusters; berries red, changing to bluish black. Two feet, each, \$1.00; add postage.

SPIREAS

A group of low or medium-sized deciduous ornamental shrubs that distribute their white or pink blossoms over practically the whole season, some varieties blooming in very early spring others in midsummer, and yet others in autumn. Their habit of growth is exceedingly graceful, and the bloom is so profuse as almost to hide the leaves.

Anthony Waterer—Covered nearly the whole growing season with large umbels of deep crimson flowers. Ten to 12 inches, 50c; 12 to 18 inches, 75c; 18 to 24 inches, \$1.00.

PRUNIFOLIA (*Bridal Wreath*)—Slender erect-growing variety having beautifully colored foliage and bearing very early in the spring small double white flowers the entire length of its branches. Very graceful habit. Two feet, 60c; three feet, 75c.

THUNBERGI—Low-growing of compact form, with delicate light green foliage which colors up beautifully in the fall. Small white flowers in great profusion, early in the spring. 18 inches, 50c; two feet, 75c.

VAN HOUTTEI—The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardy showing. Perfectly hardy and an early bloomer. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c, \$1.00; add postage.

SYRINGA OR MOCK ORANGE

Hardy, fragrant, flowering shrubs that add great beauty and perfume to gardens and homes. Strong, large plants that will flower the first season.

AVALANCHE—Large fragrant flowers on slender branches which arch gracefully to the ground. 18 to 24 inch, each, 50c; 2 to 3 feet, each, 75c.

GORDONIANUS—Very late bloomer, valuable for this quality, a large, fragrant white flower. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00.

GRANDIFLORUS—Good large flowered, strong growing sort that is very desirable. Two to 3 feet, 50c; 3 to 4 feet, 75c; 4 to 5 feet, \$1.00; add postage.

WEIGELIAS

A valuable genus from Japan; spreading and drooping shrubs, producing beautiful trumpet-shaped flowers of many colors from pure white to red in great abundance, from late spring to early summer.

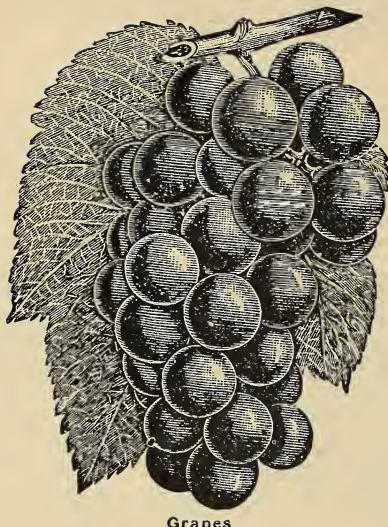
CANDIDA (*White*)—Hardy variety, vigorous and fine in habit. Long tubular white flowers produced from June on throughout the summer. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

EVA RATHKE—A free flowering bright red variety of rather dwarf habit. 2 feet each, 75c; 3 feet, each, \$1.00.

ROSEA—The old standard, strong growing, pink flowered variety. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

ROSEA VARIEGATA (*Variegated*)—A near dwarf shrub, valuable for the clearly defined variegation in its leaves of green, yellow and pink. Effective and useful, being one of the best variegated leaved shrubs known. Flowers light pink and blush. Each, 50c and 75c; add postage.

FRUIT



Grapes

BLACKBERRIES—Bush

Two year old: Each, 25c; doz. \$2.00; 50, \$6.50; 100, \$12.00; add postage.

BLOWER—Fruit large, jet black, good shipper, hardy, productive and of finest quality.

EARLY HARVEST—Its earliness, combined with good shipping qualities, make it very profitable. Compact dwarf grower, enormous bearer. Fruit medium size, black, of excellent quality.

LAWTON—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable.

BLACKBERRIES—Vining

Price: Two year old: Each, 25c; doz. \$2.00; 50, \$6.50; 100, \$12.00; add postage.

BURBANK THORNLESS—This, as its name implies, is a creation of Luther Burbank and is highly recommended on account of it being a heavy yielder of very fine quality, with the added advantage of its being thornless.

HIMALAYA GIANT—A strong, rampant, trailing plant; very productive. Hardy, and thrives even under severe conditions. Fruit large, handsome and fine quality.

NEW MAMMOTH—No longer a novelty, but a proven success; the best family and market variety known. Strong grower of trailing habit, enormously productive; very early, fruit enormous, core soft and small, seeds small, flavor unsurpassed. Add postage.

DEWBERRIES

The best and most dependable of all dewberries. Large, yet black and fine flavor. Price each, 20c; doz. \$2.00; 50, \$5.50; 100, \$10.00; add postage.

GOOSEBERRIES

One year old, each, 25c; doz., \$2.00. 2 year old, each, 35c; doz., \$3.00; add postage.

OREGON CHAMPION—Berries very large, pale green; sweet, fine, bush strong, prolific

bearer. This is the standard commercial sort for our section and is best for home use.

RED JACKET (Josselyn).—Large, smooth, prolific and hardy; best quality.

Owing to an embargo on Gooseberries we cannot ship out of Washington.

LOGANBERRIES

The loganberry is larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry.

Two year old, each, 25c; doz., \$2.50; add postage.

RASPBERRIES—Black

Two year transplants. Each, 20c; doz., \$2.00; 50, \$6.50; 100, \$12.00; add postage.

CUMBERLAND—A healthy, vigorous grower, throwing up stout, stocky well branched canes that produce immense crops of magnificent berries. Fruit very large, firm, sweet and ships as well as any of the blacks. The most profitable market variety. Mid-season.

Gregg—For many years the leading standard best known market sort. Very productive, large size, firm, meaty berries, covered with heavy bloom.

KANSAS—Strong, vigorous grower, standing extremes of drought and cold, and bearing immense crops. Early. Berries large; jet black, firm; of best quality; presents a handsome appearance.

PLUM FARMER—A few days later than Kansas; maturing the entire crop in a very short period, making one of the most profitable market sorts. The berries are thick-meated and firm. Berry large and very attractive when picked.

RASPBERRIES—Purple

COLUMBIAN—Very large, purplish color, rather soft; rich, sprightly flavor unrivaled for canning, making jam, jell, etc.; wonderful vigor and productiveness. Unlike other raspberries, this variety does not send out any suckers. Two year old transplants. Each, 25c; doz., \$2.00; add postage.

RASPBERRIES—Red

Each, 15c; doz., \$1.00; 50, \$3.75; 100, \$6.00; add postage.

CUTHBERT ("Queen of the Market")—Berries very large, conical, rich crimson, very handsome and so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.

KING—Plant a strong grower, very hardy and productive. Berry is firm, a good shipper; large size; beautiful bright scarlet color; ripens with the earliest.

MARLBORO—Large size, light crimson color; good quality and firm. Vigorous, hardy and productive. The best well tested, large early berry for the north.

ST. REGIS (Everbearing)—A genuine practical, profitable, continuous-to-fall bearing red raspberry. Fruit commences to ripen with the earliest and continues on young canes until October. Berries bright crimson, large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. This variety: Each, 20c; doz., \$1.50; 50, \$4.50; 100, \$8.00; add postage.

CURRANTS

One-year-old, each, 25c; doz., \$2.00; 50, \$8.00; 100, \$15.00; add postage.

Two-year-old, each, 35c; doz., \$3.00; 50, \$11.00; 100, \$20.00; add postage.

Red

CHERRY—Very large; deep red; fine for preserving; valuable market variety.

PERFECTION—Beautiful bright red, largest size, fine bunches on long stems, permitting easy picking, without crushing. Quality rich, mild, sub-acid, with plenty of pulp and few seeds. Very productive, vigorous and hardy.

White

GRAPE—Very large; yellowish white; very mild acid; excellent quality and valuable for the table.

Under our present state law we are not allowed to ship currants out of the state of Washington on account of an embargo.

GRAPES

Black

CONCORD—Very extensively planted. Bunch and berries medium size; black, fair quality, good keeper. Vine hardy, healthy and productive.

One year old roots. Each, 20c; doz., \$1.75; 25, \$3.75; 50, \$6.50; 100, \$10.00; add postage.

Two year old roots. Each, 25c; doz., \$2.50; 25, \$5.00; 50, \$8.50; 100, \$15.00; add postage.

All the following varieties of Grapes one-year-old roots, each 25c; doz., \$2.50; 25, \$5.00; 50, \$8.00; 100, \$15.00; add postage.

Two-year-old roots, each, 35c; doz., \$3.50; 25, \$7.00; 50, \$12.50; 100, \$22.50; add postage.

MOORE'S EARLY—Bunch large; fruit large; round, black, with heavy boom. Best early variety, hardy and productive.

WORDEN—An improved Concord, and next to it in popularity. Earlier, better quality and larger than Concord, equally hardy and healthy, but not as good a shipper. Best black grape for home use and nearby markets.

Green

MOORE'S DIAMOND—Bunches large; berry greenish white, flesh juicy; almost without pulp.

NIAGARA—Very hardy, strong grower; bunches large, compact. Berries large, round, light greenish white, semi-transparent. Skin tough, does not crack, quality good, melting and sweet.

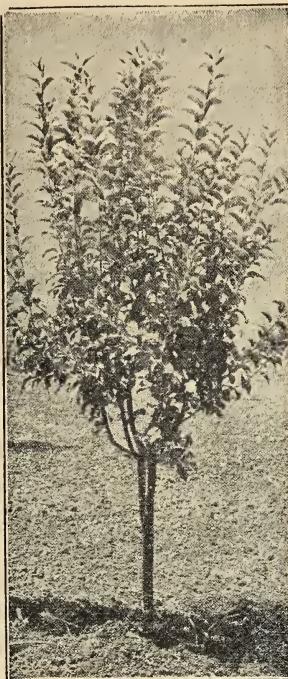
Red

AGAWAM—Large berries, pulp soft and sweet, early.

DELAWARE—Bunches small, compact; berries rather small, round, thin skin, light red; flesh juicy, sweet, good.

LARGE VARIETIES—Tokay, Muscat and Malaga.

APPLES



Apples

Summer Varieties

Two and 3-year-old: Each, \$1.00; doz., \$10.00.

One year old, 5 feet: Each, 75c; doz., \$7.00.

One year old, 4 feet: Each, 65c; doz., \$6.00.

One year old, 3 feet: Each, 50c; doz., \$5.00.

Write for price on 50 and 100 lots.

EARLY HARVEST—Medium, pale yellow, tender, juicy.

RED ASTRACHAN—Large, beautiful deep crimson. The favorite, delightful, earliest eating apple.

YELLOW TRANSPARENT—Earliest and best; white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young and makes a profitable "filler."

RED JUNE—A brilliant red variety. Its distinct flavor has made it popular.

Fall Varieties

OLDENBURG—Rather large; light red streaks on yellow ground; tender and juicy; very hardy. Handsome appearance and good cooking qualities are two points in favor of this variety. Early autumn.

FALL PIPPIN—Large; rich yellow when ripe; flesh firm, juicy, aromatic; strong grower and long-lived. September.

RED GRAVENSTEIN—Large; yellow overlaid with red; flesh firm, juicy, sprightly subacid; productive. September to November.

SNOW (Fameuse)—Medium size; bright red deepening to almost purplish black in highly colored specimens; flesh white, juicy, aromatic; heavy yielder. October.

See page 39 for description of Reed Canary Grass. The grass that grows in marshy places where other grasses will not grow.

Winter Varieties

BANANA—Large and showy; yellow, with pinkish red blush; flesh tender, heavy bearer.

BELLFLOWER (Yellow)—Large; yellow, with bluish cheek; juicy and delicious.

DELICIOUS—This variety ranks very high either for commercial or home orchards. Large; brilliant dark red; flesh fine grained, crisp, juicy with a delightful aroma; splendid keeper and shipper, heavy bearer.

JONATHAN—Red and yellow, tender, juicy and rich. Very productive; one of the best for table and market. Extensively planted, doing well even on comparatively low lands.

NEWTOWN PIPPIN—Yellow Newtown or Albemarle Pippin. One of the best quality apples, favorite in European markets where it brings fancy prices. Greenish yellow, large, juicy, crisp and aromatic. One of the best keepers and shippers. Moderate growth, good, regular bearer. Very profitable and extensively planted.

NORTHERN SPY—Striped red, large, subacid, tender, and juicy. Best dessert apple known. Tree hardy and vigorous.

RED McINTOSH—Large deep crimson, highest quality, juicy, subacid. Good for both culinary use and dessert. One of the best red winter apples.

ROME BEAUTY—Dark red striped, large, excellent quality; a market favorite, bringing good prices. Tree hardy, regular bearer, late bloomer.

STAYMAN WINESAP—Medium size; yellow ground covered with red; flesh fine, crisp, and high-flavored; reliable and heavy cropper.

WAGENER—Medium to rather large; beautiful bright red; flesh firm, subacid, well-flavored; annually productive.

WEALTHY—Medium to large; deep red, attractively marked; flesh white and juicy. Good bearer.

All apples same price. See quotations Summer Varieties.

APPLES—Crab

HYSLOP—Large, deep crimson; one of the most beautiful; very popular. October to January.

TRANSCENDENT—Largest of the crabs; striped red, showy, excellent and very handsome. Hardy and strong grower.

SIBERIAN, RED—Small, bright red, covered with light bloom; fine flavor, excellent for preserving. Ripens September.

SIBERIAN, YELLOW—Large, beautiful, golden yellow. September and October.

Same price as apples.

APRICOTS

One year, 3 to 4 feet: Each, 60c; doz., \$6.50.

First grade, 4 to 5 feet: Each, 75c; doz., \$7.50.

Two and 3 year old: Each, \$1.00 to \$2.00.

J. L. BUDD—A strong, profuse bearer; large white and red fruit. Sweet and juicy. A desirable Russian variety. Very hardy and productive. Ripens in July.

MOORPARK—Very large; orange with red cheek; flesh orange, sweet, juicy, with fine flavor; very valuable. The best and most extensively planted apricot. Ripens early August.

ROYAL—Medium size, oval, sweet yellow, tree productive; excellent drying and canning variety. Ripens in July.

TILTON—Large, flesh firm, yellow, decidedly freestone. Tree vigorous, regular and heavy bearer.

CHERRIES—Sour

Two and 3 year old selected. Each \$1.50.
One-year-old, 4 feet. Each, \$1.25.
One-year-old, 3 feet. Each, 85c.

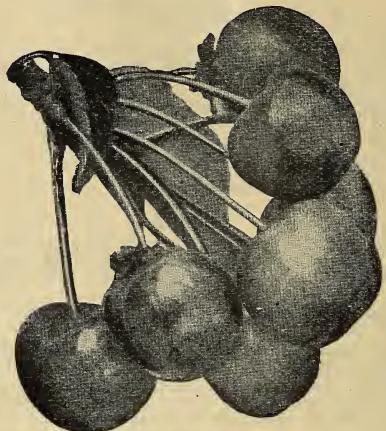
EARLY RICHMOND—Medium, dark red, melting, juicy, sprightly, rich acid, best. June.

LATE DUKE—Large, light red, delicious fruits. Tree strong and upright, exceedingly productive. July.

MAY DUKE—Large, red, juicy, rich. June. Not so sour as some varieties, and very pleasant for sensitive teeth.

MONTMORENCY—Large, red, acid, exceedingly productive. Late June.

CHERRIES—Sweet



Cherry

Two and 3-year old selected. Each, \$1.50 to \$3.00.

One year old, 5 feet: Each, \$1.25; doz., \$11.00.

One year old, 4 feet: Each, \$1.00; doz., \$9.00.

One year old, 3 feet: Each, 85c; doz., \$8.00.

BING—Very large; dark brown almost black; flesh firm, rich and delicious. Immense size; good shipper.

LAMBERT—Large size and fine quality; deep, rich red, almost black; flesh firm and flavor unsurpassed. Best shipping variety; regular and heavy bearer. Ripens late July, two weeks after Royal Ann.

ROYAL ANN—One of the best known cherries. Very large, firm, rich red and white; good for table, canning and shipping, and the best of all the red varieties.

TARTARIAN—Very large; black; tender. One of the most popular varieties.

PEACHES

Two-year-old. Each, \$1.00.

One-year-old, 4 to 5 feet: Each, 75c; doz., \$6.00.

One-year-old, 3 to 4 feet: Each, 50c; doz., \$4.50.

ALEXANDER—Medium, greenish white, nearly covered with rich red; melting, juicy, sweet. July.

ARP BEAUTY—Skin yellow and red, firm yellow, juicy flesh; excellent flavor; best early variety for family use; semi-freestone.

CHAMPION—Creamy white, splashed with carmine, with a blush of darker red; very

juicy, sweet and tender; tree vigorous and very productive; has stood 18 degrees below zero and produced a full crop the following summer.

CRAWFORDS EARLY—A magnificent, large yellow peach of excellent quality. Its size, beauty and productiveness make it one of the most popular varieties.

ELBERTA—The great market peach. Large, handsome; orange-yellow, nearly overspread with red, much mottled; flesh yellow, firm but tender, mildly subacid.

J. H. HALE—Recently introduced, recognized as one of the finest market peaches; large size, fine quality, red cheek, yellow meated freestone, ripening with Elberta but a better tree and more productive.

TRIUMPH—Earliest yellow fleshed peach. Sure and abundant bearer; strong, vigorous grower. Fruit good sized; yellow with crimson cheek.

PEARS

Two and 3 year old. Each, \$1.00 to \$2.00.
 One-year-old, 5 feet. Each, \$1.00; doz., \$10.00.
 One-year-old, 4 feet. Each, \$75c; doz., \$7.50.
 One-year-old, 3 feet. Each, 65c; doz., \$6.50.
 Write for prices on 50 and 100 lots.

BARTLETT—Large, buttery, juicy, high-flavored, great bearer. This sort has long been considered one of the choicest canning varieties, as well as a favorite for all other uses. August.

CLAPP'S FAVORITE—Very large; yellowish green to full yellow, marbled with dull red in the sun and covered with small russet specks; vinous, melting and rich.

FLEMISH BEAUTY—Large, surface slightly rough; greenish yellow and brown; flesh juicy, melting, very rich and sweet; tree hardy, producing good crops annually.

SECKEL—Small, but handsome and delicious; yellowish russet with a red cheek; flesh whitish, buttery, very juicy and melting; tree makes somewhat slow but stout and erect growth. Probably the richest and highest-flavored pear known.

PLUMS

Two or 3 year old selected. Each, 1.00 to \$2.00.

One-year-old, 5 feet, 75c.
 One-year-old, 4 feet, 60c.
 One-year-old, 3 feet, 50c.

BURBANK—A favorite Japanese Plum, ripening in August. Large, round, mottled red and yellow; productive and profitable. Tree hardy and vigorous.

BRADSHAW—Very large, oval; dark violet red; juicy, sweet and good. A valuable market variety. August-September.

DAMSON—Small, roundish oval; dark purple; favorite for preserves. September.

PEACH—Large, roundish; brownish red; coarse grained, but juicy, pleasant, sprightly flavor. Freestone. Ripens July. Ranks first in popularity.

YELLOW EGG—A very large and beautiful egg-shaped plum; a little coarse, but excellent for cooking. Late October. Free grower, productive and hardy.

PRUNES

Two and 3 year old. Each, \$1.00 to \$2.00.
 One-year-old, 6 feet. Each, 75c; doz., \$7.75.
 One-year-old, 4 feet. Each, 60c; doz., \$6.50.
 One-year-old, 3 feet. Each, 40c; doz., \$4.50.
 Write for price on 50 and 100 lots.

ITALIAN—Good size, purple, juicy, delicious, best for drying; separates freely from the stone.

FRENCH OR PETITE—The well-known California favorite for drying. Medium to small, egg-shaped; violet purple; juicy, very sweet, rich and sugary. Prolific, heavy bearer.

HUNGARIAN—Very large, dark red, juicy and sweet. Its large size, bright color, productiveness and shipping qualities make it a profitable variety for home or distant markets.

SUGAR, NEW—Fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early August.

QUINCES

Two-year-old, 3 to 4 feet: Each, \$1.00; doz., \$10.00.

CHAMPION—A prolific, constant and early bearer, oval fruit averaging larger than the Orange, quality equally fine, and a long keeper; ripens late.

ORANGE—Fruit large, bright yellow, of excellent flavor. October.

When your order is to be forwarded by mail add 10c for postage for the first root and three cents for additional roots. On some orders this allowance will be too much on others not enough, but it will equalize postage. Large orders can not be forwarded by mail.

CONIFEROUS EVERGREENS



BLUE SPRUCE

Blue Spruce

No Home Grounds are complete without them. They are beautiful in winter as well as summer; in winter they supply the only living green in the landscape; they make a beautiful background for any house, and give it a home-like appearance that is not to be produced by any other class of trees or shrubs.

Arbor Vitae

AMERICAN—Native, known as cedar. Foliage bright green; yellow-green underneath; brown and bronze in winter. Each \$1.50.

ORIENTAL—Fine with close ascending branches of a fan-shaped appearance. Each \$1.50.

PYRAMID ARBORVITAE — Bright green leaves above and dark glossy green leaves beneath. An excellent tree where pyramid forms are desired. Each \$3.00.

Cedar

RED CEDAR—Native with striking form and beautiful color. Each \$2.50.

Cypress

ALUMNI—Handsome pyramid shaped conifer. Foliage greenish-blue. Each \$3.00.

TRIUMPH OF BOSKOOP—Spreading habit; strong grower; one of the bluest conifers in cultivation. Each \$3.00.

Hemlock

WESTERN—Very beautiful and appealing; branches pendant and foliage deep green. Each \$2.00.

Fir

NORMAN'S—Lustrous, deep green foliage; very symmetrical. One of the best. Each \$3.00.

WHITE—A fine spruce; rapid growth; very hardy. Very attractive. Each \$3.00.

Juniper

COMMON—Branches spreading. Fine trees.

IRISH—Pyramidal in form, foliage silvery gray. Very striking.

SAVIN—Handsome moss green foliage.

Each \$3.00.

Spruce

COLORADO BLUE—This is one of the most popular of the spruces. Very showy and ornamental.

Each, \$4.00 and up.

NORWAY—A lofty, rapid grower; branches drooping. Fine for hedge or windbreak.

2 to 3 feet, each \$3.00.

EVERGREEN SHRUBS

Boxwood

Handsome hardy evergreens that are very popular for use as specimens in lawns, hedges and for tubbed plants.

PYRAMIDAL BOXWOOD—Cone shaped plant of great beauty. 2 to 2½ feet, each \$5.00; 2½ to 3½ feet, each \$6.00.

GLOBE BOXWOOD—Trimmed in shape of a globe. Each \$2.50 to \$5.00.

BOXWOODS FOR HEDGES AND BORDERS—Write for prices on quantity desired.

Oregon Grape

OREGON GRAPE—Official flower for the State of Oregon. Holly leafed Berry. Fine for shady places. Each, 50c to \$1.00.

Privit

ENGLISH PRIVIT—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants, and takes 2 plants to the foot. 15 to 18 in., 10 plants \$1.00, per 100 \$7.50; 18 to 30 in., 10 plants \$1.25, per 100 \$10.00.

GOLDEN PRIVIT—Beautiful variegated shrub used to plant in among evergreens. Gives wonderful effect. 1½ feet, \$1.00 each.

DECIDUOUS ORNAMENTAL TREES



Horse Chestnut

As ornamental subjects, trees take first place, as they are permanent, easy to cultivate and care for. In all landscaping, the trees are the most permanent and important element, furnishing masses of foliage which frame and divide and partly constitute the views and landscape pictures, affording shade and shelter, varying the sky-line, screening or blocking out unsightly objects and enhancing the beauty of buildings.

Mere architecture, however imposing, will not make a city street attractive unless softened by the foliage and branches of trees. They shelter the home from excessive heat and dust, add charm to the finest buildings and hide the untidy and unsightly places. There is nothing that adorns city streets more than fine shade trees, especially when planted in long lines of the same variety. The effect is much better when only one kind of a tree is planted on the same street, or, at least, on the same block.

Birch

EUROPEAN WHITE—Silvery white bark and slender drooping branches. Each \$1.00 to \$2.50.

CUT LEAF—Four to six feet. Each \$1.00 to \$3.00.

CUT LEAF WEEPING—A rapidly growing, graceful tree that is hardy everywhere. Bark and branches silvery white, forming a contrast with the delicate cut evergreen foliage. Its leaves seemingly are ever in motion. Beautiful and effective for all purposes.

Each, \$2.00, \$3.00, \$4.00, \$5.00.

Catalpa

Splendid trees, white flowers, bright foliage.

CATALPA WESTERN—Very rapid grower; fine as a quick shade. 7 to 8 feet, each \$1.50.

Dogwood

WHITE FLOWERING—Flowers white, 3 inches in diameter, blooming before leaves come in spring. Price, each \$1.50.

SIBERIAN—Small tree growing to about 25 or 30 feet with slender, slightly drooping branches. Very hardy and a remarkable grower. A very

remarkable tree, which is recommended highly for regions unsuited to most of the common shade trees. Each, \$1.50.

Hawthorne

PAUL'S DOUBLE SCARLET—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. Each \$2.50.

Horse Chestnut

WHITE FLOWERING—Foliage showy, flowers stand in upright panicles. Each \$1.50.

Linden

AMERICAN—Shapely and handsome; foliage large. Each \$1.50.

EUROPEAN—Similar to American. Leaf smaller. Each \$1.50.

Locust

BLACK—Rapid grower; fine for street planting. Each, 75c to \$2.00.

HONEY LOCUST—Each \$1.50.

Mulberry

NEW AMERICAN—A rapid grower, handsome; splendid as a shade tree. Each \$2.00.

Maple

SYCAMORE—Tree large and spreading with handsome foliage. Each \$2.00.

NORWAY—Large, growth compact; foliage deep green. Handsome. 6 to 8 feet, each \$1.50.

PURPLE LEAF—Variety Norway Maple. Young leaves are deep purple. As summer advances purple changes to green. New and very good. 6 to 8 ft., \$3.00 each.

Mountain Ash

AMERICAN—Very ornamental, handsome foliage turning orange red in the fall. Red berries remain on the tree most of the winter. Each \$1.50.

Oak

SCARLET—Pyramidal shape foliage changes to bright red in fall. Each \$1.50.

OAK PIN—The Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply-pinnated foliage. Splendid for lawn or street. Each \$2.00.

OAK RED—Ideal for lawn or street. Each \$2.00.

Sycamore or Plane

Erect growing tree with mottled trunk. Foliage bright green. Each \$1.50.

VARIEGATED BOX LEAF ELDER—The finest variegated tree of the hardy kinds, leaves almost pure white. Nothing finer for specimen planting, 4 to 6 ft. Each \$3.00.

Weeping Willow

WISCONSIN—Large glossy leaves and very pendulous habit. Each 75c to \$1.50.

AMERICAN—The well-known common weeping willow. Each \$1.50.

Add 10c for postage for the first root and 3c for each additional root. This will equalize postage, though in some cases this postage will be too much while in other instances it will be too little.

Fertilizers

Most soils in the Inland Empire are yet fairly new. Their native or virgin fertility is not yet exhausted. There are, however, many different types of soils, some of which do not naturally contain very large supplies of the different elements of plant food needed by crops. Such soils are likely soon to "run out" and need application of fertilizers carrying the particular elements in which they are deficient.

Write for prices on all fertilizers, stating amount wanted, as prices may change.

SULPHUR

SULPHUR ON ALFALFA AND CLOVER

Sulphur has proven its value as a fertilizer for alfalfa and clover.

The best results have been obtained by the use of a sulphur reduced to a fineness of 90% through a 200 mesh.

Sulphur is one of the essential plant food elements and is as necessary for plant growth as nitrogen, phosphorus, iron or any of the other elements.

The following is taken from Bulletin 128, June, 1924, issued by Washington State College, Pullman, Washington:

Sulphur fertilizer can most profitably be applied to old seeding alfalfa in the spring.

Need for Sulphur. The amount of sulphur in various soils of the Palouse region varies from 250 to 975 pounds per acre of surface soil. The average amount of sulphur in cultivated soils is about 560 pounds.

Studies show that about five or six pounds of sulphur per acre are brought down by the average rainfall of 21 inches, while a two-ton crop of alfalfa removes about 12 pounds of sulphur per acre.

Price, ton, \$3.00 per 100 lbs. Less than tons, \$3.12 1/2. Less than 1/2 tons, \$3.25. Price subject to change.

GYPSUM



Agricultural gypsum (land plaster) is an untreated, ground, natural rock fertilizer, consisting mainly of hydrated calcium sulphate.

Gypsum furnishes sulphur in available form and may also increase the nitrogen supply to legume crops.

Alfalfa and white clover-blue grass lawns are perennial and the applications should be repeated every two or three years. Red clover and

sweet clover are biennial; the seedlings get set the first year and produce the crop the second. On these, the gypsum should be applied in the early spring of the year the crop is to be mown.

For beans, peas and vetches it may be drilled in with the crop. The rate of application is 200 to 500 pounds to the acre.

In deciding whether to use gypsum or sulphur the relative cost is an important factor. Results have indicated that it requires about four times as much gypsum as sulphur to give equivalent increases in yield.

Ton, 85c per bag. Less than ton, 90c. Less than half ton, \$1.00.

MURIATE OF POTASH—The great importance of adding potash to some soils is well known. Ton \$3.50 per 100 lbs. Less than ton, \$3.62½. Less than ½ ton, \$3.75. Less than 500 lbs., \$4.00; 100 lbs., \$5.00. Less than 100 lbs., 6c. Less than 50 lbs., 7c. Less than 25 lbs., 8c.

NITRATE OF SODA—Contains 13 per cent Nitrate, in quickly available form. It is used for forcing crops like lettuce, celery, etc., as it makes a large growth of leaves and tops.

Apply the Nitrate of Soda by broadcasting it evenly over the entire surface of the vegetable field you are fertilizing, at the rate of 250 pounds per acre, before seeding, or planting, or transplanting.

Ton, \$3.50 per 100 lbs. Less than ton, \$3.62½. Less than 1,000 lbs., \$3.75. Less than 500 lbs., \$4.00; 100 lbs., \$5.00. Less than 100 lbs., 6c. Less than 50 lbs., 7c. Less than 25 lbs., 8c. Bags weigh from 150 to 200 lbs., and are sold gross weight.

FISH MEAL—A high grade fertilizer made of fish scrap, dried and finely ground. It is very high in nitrogen and phosphoric acid, and will produce wonderful results where a luxuriant top growth is desired, and where the offensive odor will not be objectionable. Use about 500 lbs. to acre when applied to row and 1,000 if sown broadcast, 6 nitrogen, 6 phosphoric acid.

Ton, \$4.50 per 100 lbs.; less than ton, \$4.62½; less than ½ ton, \$4.75; less than 500 lbs., \$5.00.

SHEEP MANURE—Contains Nitrogen, Phosphoric Acid, Ammonia and Potash in liberal proportions. Produces immediate and lasting effect. Promotes steady and rapid growth.

It should be applied liberally, as it will not burn and the cost is low. Recommend 100 lbs. to 2,000 square feet. No objectionable odor. Ton, \$1.25 per 100 lbs. Less than tons, \$1.35. Less than half tons, \$1.50.

SULPHATE OF AMMONIA—Used for its nitrogen. A very desirable fertilizer for all plants in which a large leaf development or rapid growth is desired. It tends to create an acid reaction in soil. Do not let it touch green growth. Use 1 pound to 50 square feet. Tons, \$90.00; less than tons, \$4.62½ per 100 lbs.; less than 1,000 lbs., \$4.75 per 100 lbs.; less than 500 lbs., \$5.00 per 100 lbs.; 100 lbs., \$5.50; less than 100 lbs., 7c; less than 50 lbs., 8c.

SUPERPHOSPHATE—This is a concentrated form of phosphoric acid. 17% phosphoric acid.

Ton, \$1.75 per 100 lbs. Less than ton, \$1.87½ per 100 lbs. Less than ½ ton, \$2.00 per 100 lbs. Less than 500 lbs., \$2.25 per 100 lbs. Bag of about 125 lbs., \$3.15; 100 lbs., \$3.00. Less than 100 lbs., 4c. Less than 50 lbs., 5c.

is blood, dried and finely ground. Use about 400 lbs. to acre when applied to the row and about 1,000 lbs. if used broadcast.

Ton, \$5.00 per 100 lbs. Less than ton, \$5.12½ per 100 lbs. Less than ½ ton, \$5.25 per 100 lbs. Less than 500 lbs., \$5.50.

BONE MEAL STEAMED—You will notice this is referred to as Steamed Bone Meal, because it has been given a special treatment in order that the different elements may be the more readily converted into plant food. Used extensively for bulbs, flowers, roses, and green houses.

Analysis: Nitrate, 1%; phosphoric acid, total 28%.

Ton lots, \$60.00; less than tons, \$3.12½ per 100 lbs.; less than 1,000 lbs., \$3.25 per 100 lbs.; less than 500 pounds, \$3.50 per 100 lbs.

TANKAGE—This gives off very little odor and is highly recommended as a reliable fertilizer. Use about 500 lbs. to acre for row application and about 1,000 lbs. broadcast, 4½ nitrogen, 7 phosphoric acid.

Analysis, 4½ per cent nitrogen, 7 phosphoric acid.

Ton, \$2.50 per 100 lbs. Less than ton, \$2.62½. Less than half ton, \$2.75. Less than 500 lbs., \$3.00. Prices subject to change on all fertilizers.

SPECIAL FERTILIZERS

FOR SPECIAL CROPS—While the amount and kind of fertilizer to use for any given crop depend somewhat upon the nature and condition of the soil it is a well known fact that certain crops require certain ingredients to feed upon, and unless these are supplied, the crop produced will only be a part of what might have been produced if the crop had been properly supplied with the elements that it required.

Therefore to make it possible to supply the different crops with the particular elements necessary for their best development, the following special fertilizers have been prepared and are recommended for the different crops.

BERRY FERTILIZER—2 nitrogen, 10 phosphoric acid, and 2 potash, is an organic material suitable for fall and spring application. The most successful berry growers apply from 1,000 lbs. to 2,000 lbs. per acre yearly when applied to the rows. Ton, \$3.00 per 100 lbs. Less than ton, \$3.10. Less than half ton, \$3.25.

General fertilizer, 2 per cent nitrogen, 10 per cent phosphoric acid and 2 per cent potash, is made up of half chemical and half organic materials for spring application to vegetables and is a general fertilizer for this purpose. Row application, 500 lbs. to acre. Broadcast, double this amount. Ton, \$3.00 per 100 lbs. Less than ton, \$3.10. Less than half ton, \$3.25.

Clarke's Orchard Dressing, 6 nitrogen, 10 phosphoric acid, and 4 potash, is a balanced ration orchard fertilizer which has made immense increases in the quality and quantity of fruit. This material is carefully ground and cured ahead of the season in order to be highly efficient. Use one pound per year age of tree up to 12 years. Ton, \$4.12½ per 100 lbs. Less than ton, \$4.25. Less than half ton, \$4.37½. Less than 500 lbs., \$4.50.

Potato Special, 2 nitrogen, 10 phosphoric acid, and 4 potash. This is a mixture especially prepared of materials which tend to decrease the spread of scab. Soot and potash salts are especially included in this mixture to assist in reducing this pest. Hill application 700 to 800 lbs. Ton, \$3.00 per 100 lbs. Less than ton, \$3.12½. Less than half ton, \$3.25.

Tomato Special, 3 nitrogen, 8 phosphoric acid, and 6 potash, is a material especially designed to make large, quick maturing fruit which is solid and will ship well. Row application, 500 lbs. to acre, but more than double this amount if used broadcast. Ton, \$3.25 per 100 lbs. Less than ton, \$3.37½. Less than half ton, \$3.50.

PACKING HOUSE PRODUCTS

BLOOD DRIED—A very effective and quick acting form of nitrogen. Like Nitrate of Soda it must be used with care, and is best used in several light applications, but when properly used it is a very valuable fertilizer. It

Quotations on fertilizers are prices prevailing Dec. 1, 1927, but as these are liable to change our prices may advance or decline, therefore it is better to write for prices stating amount wanted.

Please note that analysis on fertilizers may vary from figures here given as sometimes the different mixtures will vary somewhat, hence not guaranteed to be exactly correct.



PEAT MOSS consists chiefly of decomposed vegetable or organic matter. It is free from weed seeds and detrimental to fungi. It is produced from high-level moorland, consisting chiefly of sphagnum moss of high quality, light in color and weight. It is light and has superior moisture absorbing and retaining qualities.

Peat Moss makes soils favorable to beneficial soil bacteria, necessary to good vegetative growth. Plants consume humus and so do the bacteria in their operation of transforming air nitrogen into valuable plant food. Peat Moss tends to increase the humus content of the soil.

Peat Moss is clean, odorless, easily stored and handled. It promotes root development, resulting in strong, robust plants.

Peat Moss is valuable for use on greenhouse benches, in hotbeds and cold-frames, in potting and bench soil, as a soil improver in garden and field, for propagating and as a mulch in the flower and vegetable garden, around trees, shrubs and hedges. It is valuable for use on the lawn.

Put up in bales of about 180 lbs. Price per bale, \$6.00.

ADCO



ADCO is a powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure fully equal to the farmyard product in

fertilizing power, but free from foul odor, weeds, seeds, etc.

Gardeners, by using their refuse, can now have plenty of manure at low cost and little trouble.

Farmers, by utilizing straw, corn stalks, etc., can now secure their manure at a very reasonable price.

Vegetable growers can turn back into their soil as rich manure the stalks, cuttings, vines, leaves, etc., heretofore wasted.

Nurserymen and fruit growers can convert leaves, etc., into valuable fertilizer for their trees and bushes.

ADCO in Small Gardens

For the small garden a large crate is very useful. Into it the garden refuse is emptied daily, and whenever it becomes an additional foot high it is compacted, wetted and sprinkled with ADCO at the rate of one pound to every four square feet of surface. By having a hinged slat at the bottom it is possible to pull out the thick, dark, rich manure as it becomes ripe, while constantly adding to the mass above.

25-lb. bag, \$2.75; add postage. Enough for 12 wheelbarrow loads of garden waste making half ton of manure.

100-lb. bag, \$10.50. Enough for a heap 8x8x6 feet, making about two tons of manure.

STIM-O-PLANT

PLANT STIMULANT TABLET

Each tablet contains 26 grains with guaranteed analysis of 11 per cent nitrogen, 12 per cent phosphoric acid and 15 per cent potash. In liquid form use directly on soil; do not touch foliage or stems.

For pot plants place from $\frac{1}{4}$ to 1 tablet to each plant according to size of pot. For garden crops grown in drills use 1 tablet to each foot of row. On plants grown in hills use 1 tablet to each hill. For flower beds and borders, for bush or small fruits, for fruit and ornamental trees, for shrubby plantings, insert 1 tablet for each square foot of planted surface. Box of 30 tablets 25c, postpaid 30c; 100 tablets 75c, postpaid 85c. Pails, 1,000 tablets, \$3.50; postpaid, \$3.65.

GROMORE

DEPENDABLE
TRADE MARK

FERTILIZER

ODORLESS—CLEAN—EFFICIENT

For Lawns, Flowers, Gardens, Shrubs, House Plants, Fields and Orchards.

A 25-lb. bag covers a lawn space of 1,200 square feet. Lasts a year or more.

A tablespoonful to hill of potatoes, tomatoes or ordinary rose bush means abundant flowers, crisp and early vegetables.

A teaspoonful for 6 to 8 in. potted plant.

The small amount that it is necessary to use makes Gromore one of the most economical fertilizers. 1 lb. pkg., 25c; 2 lb. pkg., 45c; add postage.

VIGORO

Specially prepared plant food

For a better lawn, more beautiful flowers, and fine vegetables, you can rely on VIGORO.

You can enjoy these beauties of nature if you use good seed, plants, bulbs, and the right plant-food. The right plant-food is important because plants must be fed the same as human beings.

VIGORO is scientifically balanced and complete, and provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10c to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen colander. Effective because it contains all of the elements of plant-food necessary to grow richly colored flowers, velvety lawns, suc-

culent vegetables, luxuriant shrubbery, and healthy trees.

Complete directions in every bag.

100-lb. bag, \$6.00; 50-lb. bag, \$3.75; 25-lb. bag, \$2.00; 5-lb. pkg., 60c.

"PEP" FERTILIZER

6 per cent nitrogen, 10 per cent phosphoric acid and 4 per cent phosphate. In some respects Pep is different from other fertilizers, in that it is composed of chemicals and vegetable matter. As is well known, the chemical substance acts very quickly, hence is soon exhausted, whereas vegetable matter acts more slowly, but naturally, lasts longer, therefore the peculiar combination of both chemicals and vegetable matter makes Pep one of the most desirable fertilizers to use because of its quick action, combined with its lasting properties. 5-lb. pkg., 60c; 10-lb. bag, 90c; 25-lb. bag, \$1.75; 50-lb. bag, \$3.00; 100-lb. bag, \$5.50.

Quotations on all fertilizers subject to change, hence prices not guaranteed.

Seed Inoculation

Soil and crop experts agree that for best growth, and to put atmospheric nitrogen in the soil, it will pay all farmers to inoculate all legumes, even where they are at present successfully grown. The cost is trivial when compared with the profit it will bring you. Legumes are clovers, peas and beans, alfalfa, soy beans, vetches and other plants that grow their seeds in a pod. Their roots are the home of bacteria that draw fertility-building nitrogen from the air and store it in swellings on the roots, called nodules. These nodules not only feed nitrogen to the crop they are on, but rot away in the ground and supply valuable nitrogen to the soil for future crops of corn, wheat, cotton, oats, fruits, etc.

Treatment of the seed with McQueen's Inoculator is the cheapest and surest way of enabling them to get the nitrogen they so vitally need, in sufficient quantity to insure maximum yield.

McQueen's Inoculator is the hardest and most virile nitrogen fixing bacteria known.

That is because it is bred under nature's conditions, not in a laboratory under hot-house conditions.

McQueen's Inoculator has an unequalled record of results.

McQueen's Inoculator insures a catch and means success with legumes. Use as many packages of McQueen's Inoculator as you wish, according to directions. If nodules do not appear in a satisfactory manner, the entire purchase price will be refunded.



The Modern Legume Inoculator

MODERN farmers demand modern methods of farming, and agree that all legume seed should be inoculated. McQueen's Inoculator is the modern legume inoculator—made for farmers—by farmers—to make farming pay. It is field bred and farm grown and is able to give fine results under your field conditions.

McQueen's Inoculator is the only nitrogen fixing bacteria that is

ABSOLUTELY GUARANTEED

to give satisfactory results or your money back. This is for your protection. You are the judge of results. Inoculate your Alfalfa, Sweet Clover, Soy Beans, Vetch, Peas, Beans and Clovers of all kinds with McQueen's guaranteed Inoculator that hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills.

Simple directions for mixing Inoculator with your seed are printed on each and every package of McQueen's. Only a few minutes of your time is required to inoculate your legume seed. Many Master Farmers use McQueen's. Tremendous sales on McQueen's Inoculator enables us to offer this quality merchandise at the following

REDUCED PRICES

FOR CLOVER AND ALFALFA

½ bushel size	Inoculates	30 lbs. seed	\$.50	
1	bushel size	Inoculates	60 lbs. seed	1.00
3-1	bushel size	Inoculates	180 lbs. seed	2.50
6-1	bushel size	Inoculates	360 lbs. seed	4.50

FOR SOY BEANS, COW PEAS, VETCH AND OTHER PEAS AND BEANS

1	bushel size	Inoculates	60 lbs. seed	\$.50
2	bushel size	Inoculates	120 lbs. seed	1.00
3-2	bushel size	Inoculates	360 lbs. seed	2.50
6-2	bushel size	Inoculates	720 lbs. seed	4.50

GARDEN SIZE

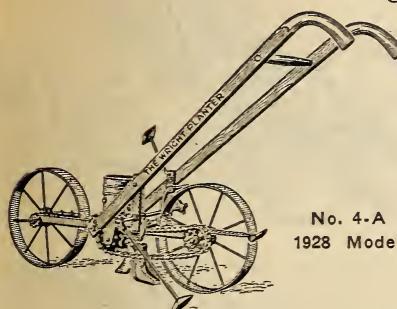
For Garden Peas, Beans, Sweet Peas and Lima Beans. .20

Be sure to include McQueen's Inoculator with all your Legumes Seed orders.

Always state kind of seed you wish to inoculate.

Seeders and Cultivators

Wright's Planter



No. 4-A
1928 Model

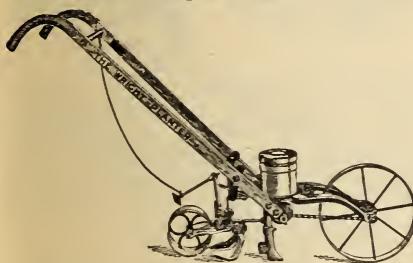
In this new model, Wright's superior seed dispensing mechanism has not been changed, but other important features have been effected.

The trenching point or furrow opener is pointed downward and opens a seed row in a hard or soft seed bed. The wide tire following wheel packs the planted row. The sprocket drive is positive to the driving gears, and the chain drive can be had from either the rear or front axle.

With the eleven plates furnished with each machine, they will operate to drill evenly, or hill plant seeds spaced every 45 inches, every $22\frac{1}{2}$ inches, 15, $11\frac{1}{2}$ or nine inches. Head lettuce or any variety of seed can be dropped as per this spacing, two or more seeds to the hill.

The No. 4-A Planter weighs 40 pounds; is of light draft for being pushed by hand, though a horse or tractor hitch is furnished when ordered. Wright Planters save much seed and labor thinning excess plant growth.

Price \$26.00. Weight 40 lbs.

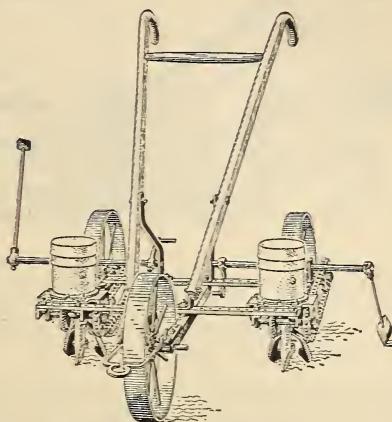


No. 4-A

Has special merits. No other machine has ever been put on the market guaranteed to plant a fixed number of seeds per foot with fair accuracy. Refer to the planting table below, which gives the drops a Wright Planter will make. The chain is outside the drive wheel frame. Drive wheel is 14 inches in diameter with $2\frac{1}{4}$ -inch rim. Both machines are made of malleable iron with oak handles.

Seeder only, \$21.00. Complete, \$25.00.

	Plate No.	Seeds per foot.						
Beets	9	8	11	25				
Carrots	3	12	6	25	2	40	1	80
Corn, Sweet	10	2						
Lettuce	6	12	2	18	1	36	5	60
Onions	2	12	1	25	5	36	7	70
Parsnips	8	18	9	60				
Radishes	2	6	5	20	1	25	7	40
Spinach	7	1						
Turnips	4	12	2	18	1	36	5	60

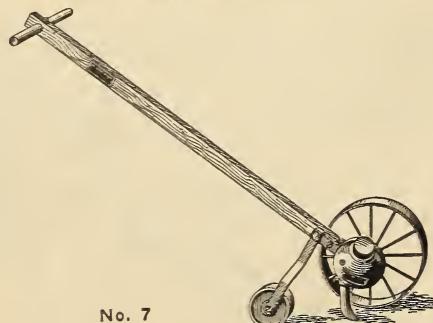


No. 5-A 1928 Model

The New Model Wright Two-Row Planter has been designed for rugged field use. The wide tire wheels adapt the machine to loose or heavy soils and the clevice hitch provides a means for attaching the tool to either a horse or light tractor.

The regular adjustment of the steel frame is for two 24-inch rows down to 14-inch rows, and when the machine is set for two 24-inch rows, without change, two 12-inch rows can be planted by straddling alternate rows. In this manner other narrow row planting can be had as may be desired. Price \$50.00. Weight 100 lbs.

The Wright Wee Planter

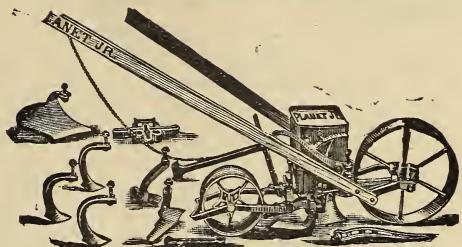


No. 7

So called by reason of its size, nine pounds weight and having only seven pieces of mechanism. This tool has been especially designed for greenhouse use and light gardening. It will dispense a fixed number of seeds per foot of any kind or size, from beans to poppies with close accuracy. The whole mechanical system of the machine is that it has a plate system—a series of plates numbered from one to nine—that will evenly dispense any variety of seed that will be put in the cover lid of the box that holds the plates when not in use.

Price \$9.00. Weight 11 lbs. Add postage.

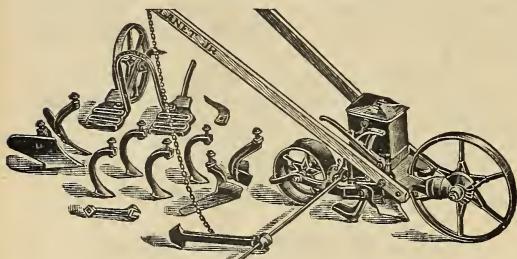
No. 4 Planet Jr.



This is the most popular combined tool made. It combines in a single implement a first-class, hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart.

The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price complete, \$18.00. Seeder only, \$14.25.

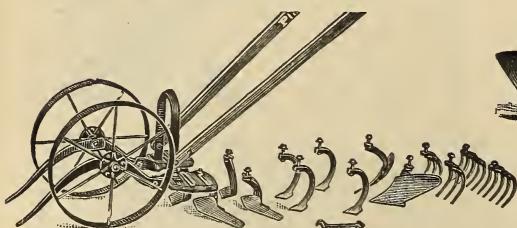
No. 25 Planet Jr.



As a drill it is almost identical with the Planet Jr. No. 4 Drill, and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills.

As a wheel hoe it is identical with the Planet Jr. No. 12 Double Wheel Hoe, the very best machine on the market. The change from drill to wheel hoe takes but a moment. Price, \$21.50.

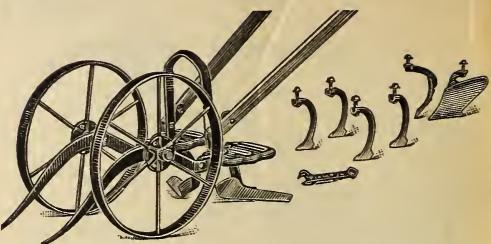
No 11 Double Wheel Hoe



No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Then, too, it's easy to work.

It has a pair of 6-inch hoes, a pair of plows for opening or covering, and a set of four all-steel cultivator teeth, rakes and two leaf lifters. Price, \$13.75.

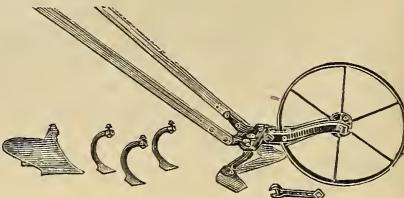
No. 12 Planet Jr.



No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Then, too, it's easy to work.

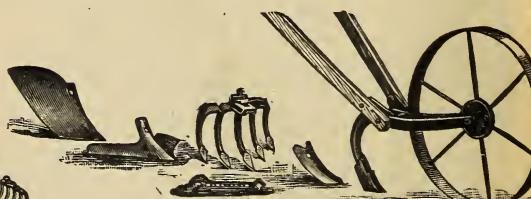
It has a pair of 6-inch hoes, a pair of plows for opening or covering, and a set of four all-steel cultivator teeth. The tools shown are what gardeners use most and others can be added as wanted. Price, \$10.75.

No. 17 Planet Jr.



Wheel can be placed on outside of wheel arm to work both sides of the row at one time. With the plow, all the necessary plowing, opening and closing of furrows for seed, fertilizer, etc., and hillling of plants can be done. Equipment: One garden plow, three steel cultivator teeth, pair of six-inch hoes. Price, \$7.75.

No. 19 Planet Jr.



No. 19—This attractive implement is especially designed for the farmer's garden work. The great variety and fine shape and quality of the tools makes the implement light running and effective. It is strong, well made, and quickly adjusted. The height of the handles can be changed to suit. Price, \$6.00.

Planet Jr. Seeder Attachment

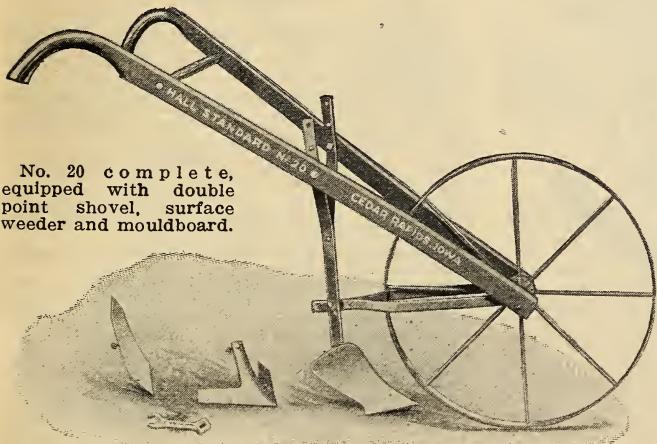


Fits all Planet Jr. Wheel Hoes and Garden Plows, except the Fire Fly. Sows a five-cent packet of seed as economically as a full hopper, at the proper depth and thickness, which produces a uniform stand. Price, \$6.50.

PLANET JR.'S EXTRAS.

Size—	Price	Weight
Pair.	Pair.	
Hoes, 6 inch.....	\$1.30	3 lbs.
Hoes, 7½ inch.....	1.50	3 lbs.
Hoes, 9 inch.....	1.65	3 lbs.
Rakes, 3 teeth.....	1.00	2 lbs.
Rakes, 5 teeth.....	1.60	2 lbs.
Rakes, 7 teeth.....	2.25	3 lbs.
Cultivator teeth, each.....	.35	1 lb.
Plows for double wheel hoes. Each	1.40	3 lbs.
Plows for single wheel hoes. Each	1.30	3 lbs.
Handles, per pair.....	1.00	3 lbs.

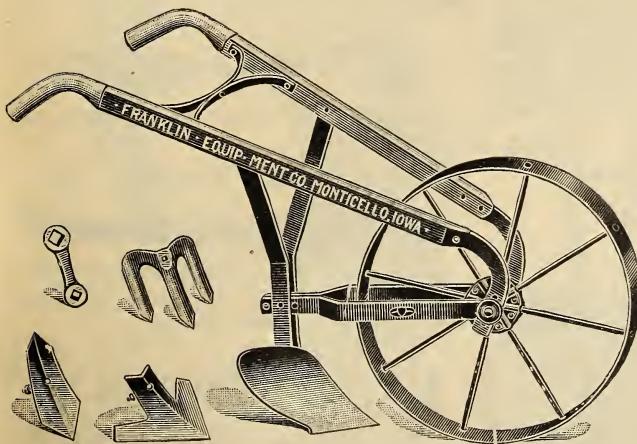
Add postage.



No. 20 complete,
equipped with double
point shovel, surface
weeder and mouldboard.

Garden Plows

No. 20 Garden Plow is equipped with three tools, well sharpened and polished. Handles adjustable to proper working height. Extra heavy, 24-in. wheel and superior construction throughout makes this plow a rapid seller. Price, \$4.25.

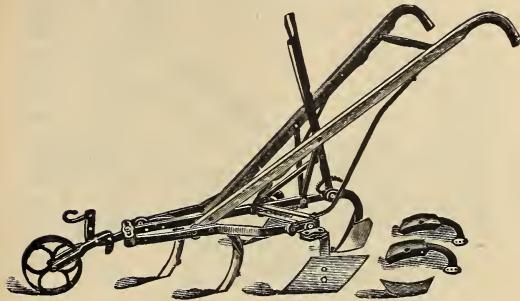


NO. 25—Handles made of hollow pressed steel 1x2 inches. No wood to split, crack, or warp. 24-inch wheel, 1¼-in. tire. Hub 3¼ in. in width. Adjustable handles. By loosening one bolt handles can be raised or lowered. Three-hole adjustment permits changing the draft to suit different soils. While the accompanying cut shows only three attachments, the new style which we are offering has five attachments. Price, \$5.25.

See page 120 for prices and description of Stanchions and other dairy supplies.

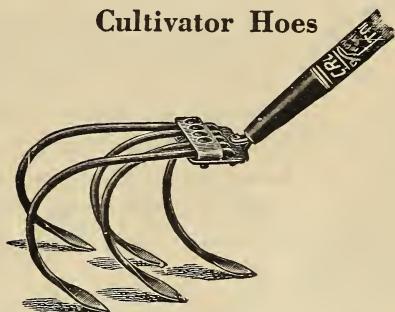
Our day-old chicks are reliable.
Examine our Sol Hot Brooder. None like it.

No. 2—5-Tooth Cultivator



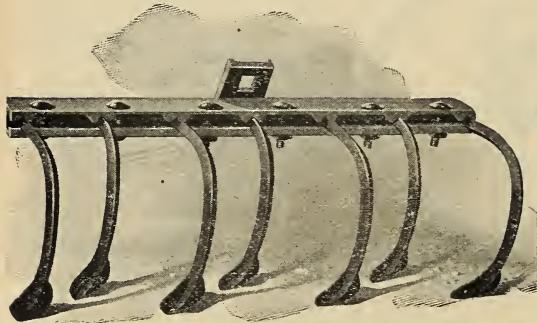
For garden, truck patch, orchard or field work. This tool is finely built throughout. Frames are high carbon steel, and are made extra long to avoid clogging in narrow rows. Standards high, reducing draft, and adjustable to change pitch of shovels. Price \$11.00.

Cultivator Hoes



Two prongs are changeable for rows of any width. Loosening nuts, releases the prong. Works between rows or center prong can be removed and rows straddled. A perfect weeder and pulverizer, giving level cultivation. Head made entirely of steel. Light, well made, serviceable. Blue finish, 4 1/2-foot handle. 5-prong, price \$1.10, weight 5 lbs.; 3-prong, price, 90c, weight 4 lbs. Add postage.

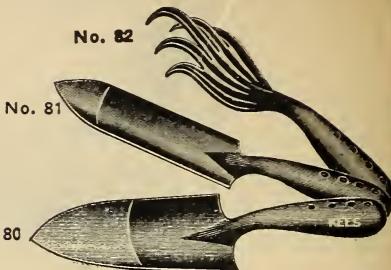
Cultivator Attachments



Here's a seven-prong cultivator attachment.

Prongs are made of best forged blades, and each prong can readily be removed. Attachable to any standard plow on the market. Permits a scope of cultivation impossible with stationary prong cultivators. Width 12 inches. Weight, 3 lbs. Price, \$1.25; add postage.

Garden Trowels



NO. 80—GARDEN TROWEL—One-piece heavy pressed steel. Blade and handle formed from a single piece of steel. Handle cannot come off nor break.

Blade 6 1/4 inches long, 3 3/8 inches wide, handle 5 inches long. Blade ground and polished. Handle perforated. Beautiful dark blue lacquer finish. Price, 25c; postpaid 30c.

NO. 81—TRANSPLANTING TROWEL—Stamped steel, blue lacquer finish.

One-piece heavy pressed steel. Blade 6 1/4 inches long by 1 1/8 inches wide. Otherwise like No. 80. Price, 25c; postpaid 30c.

NO. 82—GARDEN WEEDE—Pressed steel, blue lacquer finish.

One piece heavy pressed steel. Has five corrugated fingers with ground and polished points. Round, perforated handle. Blue lacquer finish. Length, over all, 9 1/2 inches. Price, 25c; postpaid, 30c.

NO. 183—GARDEN SET—Pressed steel, blue lacquer finish.

Set of three pressed steel garden tools: No. 80, Garden Trowel; No. 81, Transplanting Trowel; No. 82, Garden Weeder. All made one-piece, pressed steel, beautifully finished in blue lacquer. One set in a carton. Price, 65c; postpaid, 75c.

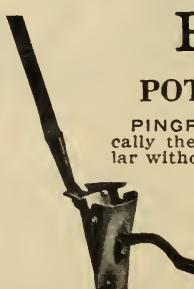


Five prong, corrugated handle. Price, 50c; postpaid, 60c.

CORN KNIFE



NO. 6 SPECIAL STEEL—Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21 1/2 inches. Number of rivets, 3. Weight, 2 lbs. Price, 75c. Add postage.



Planters

POTATO PLANTER

PINGREE OR ACME—Is practically the same as the Acme Tubular without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Weight 5 lbs.; price, \$1.25; add postage.

POTATO PLANTERS

ACME SELF-LOCKING TUBULAR — The jaws are formed from bright steel dipped in a special preparation to prevent rust. The lock is secured by the front jaw slipping down $\frac{1}{8}$ of an inch, which causes a pair of studs on its upper corners to slip over corresponding shoulders in the rear jaw. When thrust into the soil to deposit the seed, the front jaw is pushed up, releasing the lock. Galvanized iron taper conveying tube. Weight 6 lbs. Price, \$1.75; add postage.

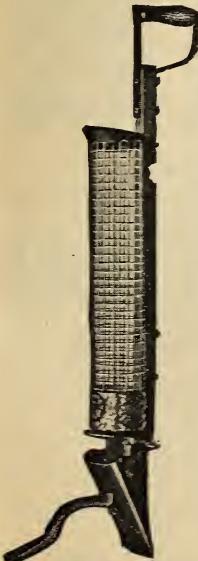


ACME ROTARY AUTOMATIC — Pressed steel hopper. Hopper cup conveyor, depth gauge, dump foot and cut-off box. Cast frame (or basket.) Disc or seed plates are adjustable by means of a thumb nut to suit various sizes of kernels. Used in one hand like a walking stick. Disc is set for correct number of kernels by loosening thumb nut, moving star until pockets are of right size, then tightening thumb nut again. Plunge planter into the ground, work forward to trip seed, and withdraw. Double coil spring automatically rotates disc and closes jaws, thus filling same for next hill. Wt. 6 lbs. Price, \$2.50; add postage.



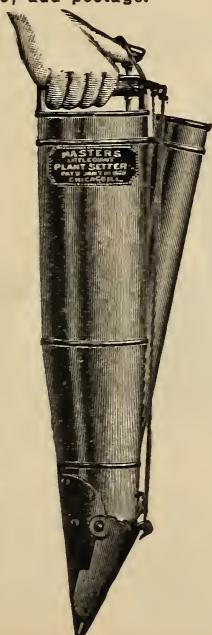
ACME WIRE TUBULAR — Strong hardwood handle, set into malleable iron socket securely riveted to back jaw. Foot plates provided on socket. Adjustable dump or depth gauge. Wire mesh conveying tube by which each seed can be seen when passing through the tube.

Weight, 6 lbs. Price, \$1.75; add postage.



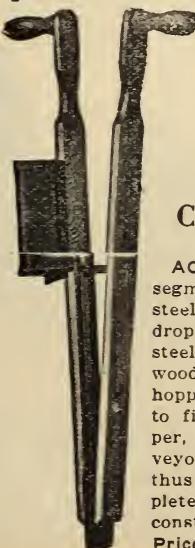
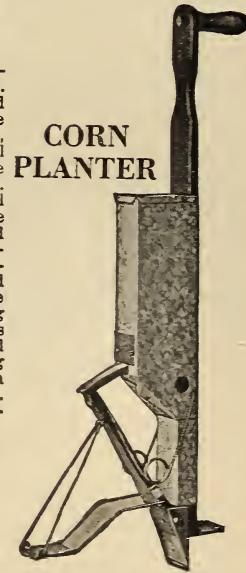
Master's Rapid Plant Setter

Each plant is SET, WATERED and COVERED in one operation without any stooping and no lame backs. A man simply walks along in an upright, comfortable position and will set from 8,000 to 15,000 plants per day and never have to bend his back. It does perfect work. The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water. Weight, 6 lbs. Price, \$6.00; add postage.



CORN PLANTER

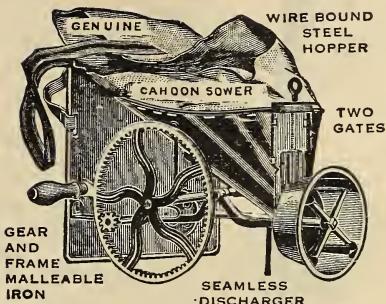
ACME SEGMENT — Automatic slide type. Segmental pressed steel slide, adjustable for number of kernels, running in segmental steel track. Chinese bristle brush cut-off. Double soil steel spring, adjustable depth gauge, fixed dump lever, galvanized hopper with hinged cover, galvanized seed spout. Can be used also for planting beans. Pumpkin seeds may also be planted by operator dropping seed into hole in spout. Weight 5 lbs. Price, \$1.90, add postage.



CORN PLANTERS

ACME OR TRIUMPH — The segmental slide is of pressed steel, adjustable to vary the drop. The jaws are of pressed steel securely riveted to hardwood sides, and the cover of hopper is also steel with hinges to fit over the top. The hopper, hopper bottom and conveyor tube are of pressed steel, thus making the planter complete, without a casting in its construction. Weight 5 lbs. Price, \$1.25, add postage.

Cahoon Broadcast Seeder



Distributes seeds uniformly in one-fifth the time required by hand. This Cahoon seeder that we are offering is the Genuine Cahoon. After a careful examination of the Genuine Cahoon Seeder and other seeders sold as Cahoon Pattern, the following are some of the differences that have been noticed:

First—The Genuine Cahoon Seed Sower has a malleable iron frame, handle gear and other parts, which in the other machines are cast iron, more easily broken.

Second—The top of the hopper on the Genuine Cahoon is wire bound, making it stiffer and stronger. The hopper of the other machines are not wire bound and they do not have the edge turned over.

Third—The bag of the Genuine Cahoon is made of 7-ounce duck, that on the other machines is made of lighter, less durable material.

Fourth—The genuine Cahoon has a double gate, larger for grain and the smaller for grass seed, with a gauge which permits of setting the gate properly to sow a certain quantity per acre.

Fifth—The Genuine Cahoon is speeded so that the operator walking at an ordinary gait makes one complete revolution of the crank with each step, which is a rule very easily followed, while the other machines are so speeded that it is necessary for the operator to turn much faster. Weight, 8 lbs. Price, \$5.00. Add postage.



IMPROVED CYCLONE
Has a Slope Feed Board—
This feature is found in no other Sower, as the Improved "Cyclone" is the only Hand Seed Sower that is framed together with a slope feed board. This insures a filled hopper.

Triple Gears—are all adjustable.

Automatic Feed Shut-off-starts or stops flow of seed instantly.

The Improved "Cyclone" is guaranteed to sow perfectly all seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs. Price, \$2.25; add postage.

GRASS SEEDERS



WHEELBARROW—They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder is constructed on up-to-date principles. It has a strong steel wheel, 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a device that engages the wheel close to the hub. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing the pin in the index plate as thereon indicated. 14-foot spread. Price, \$14.00.

DUSTERS

American Beauty

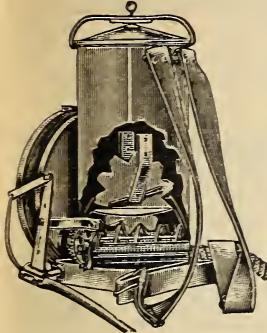
THE WORLD'S FINEST ONE-MAN DUSTER

When dusting is to be well done and a great deal depends on perfect protection from insect pest and disease, the supremacy of the American Beauty has never been questioned.

Its high quality, stability and perfect performance make it ideal for growers of valuable crops.

The gears and rocker arms on the American Beauty are pressed steel. There is no wear to this American Beauty.

Price, \$18.00.
Weight, 18 lbs.
Add postage.



The Little Beauty Garden Duster



Most powerful hand duster built. Holds $\frac{1}{2}$ pound of dust. Throws dust cloud twelve to fifteen feet.

Built especially for suburban home owners having a few small trees to care for.

So constructed that an even feed is obtained whether the blast is directed ahead or up or down.

Large filling opening. Loads quickly and easily. No mixing of liquids or using funnels.

Price, \$2.50. Postpaid, \$2.60.

Calispray Garden Duster



The ideal duster for flower or vegetable garden. Holds $\frac{1}{4}$ pound of dust. Throws cloud six feet. Has self lubricating plunger. Plunger rod held rigid in steel tube. Has deep lip on filling opening. Does not wear loose and useless in a short time.

Price, \$1.25. Postpaid, \$1.35.

Calispray Puffer

Most powerful dust puffer built. Made of metal with heavy bellows.

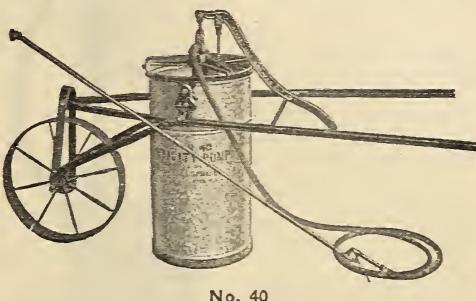
Ideal for applying Flea, Fly, Moth, or Insect powders. Easy to fill. Holds two ounces. Throws cloud four to six feet.

Price, 25c; postpaid, 30c.

Pumps

UTILITY SPRAY OUTFITS

This Outfit Is Light, Compact, Easy to Operate



No. 40

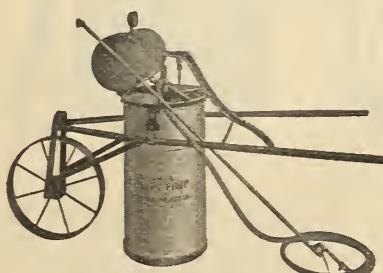
Very useful for painting, whitewashing, and spraying warehouses, factories, barns, trees and greenhouses.

TANK is larger than most similar outfits, made of heavy galvanized iron, reinforced at top and bottom with heavy band iron rings. Capacity, 18 gallons.

PUMP—The cylinder is made of heavy brass tubing and has brass plungers packed with specially treated cotton wick to resist action of chemicals; can be tightened or expanded without removing from cylinder. Valves and all parts that come in contact with liquids are brass. Iron handle of good length makes pumping easy; 175 pounds pressure is easily maintained. Mechanical agitator keeps liquids thoroughly mixed. A fine strainer at suction end prevents sediment getting into working parts of pump.

FRAME substantially built of steel, well braced and balanced.

Price, \$27.50.



No. 40A

No. 40A—Same in construction as No. 40, but equipped with an air pressure tank mounted on pump casting. This makes a one-man outfit. By obtaining 250 pounds pressure considerable spraying can be done without pumping.

Price, \$41.00.

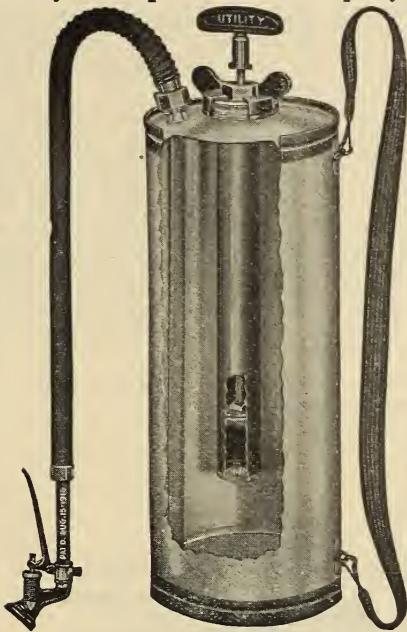
The Success Bucket Spray Pump

All Brass Working Parts, with Indestructible Bronze Valves, Malleable Iron Foot-Rest.

This outfit is a most excellent one for ordinary use in garden, vineyards and orchards; for washing windows and buggies and for the application of whitewash. The pump has a large air chamber and is double acting, throwing a continuous stream either solid or in fine spray. It is provided with Bordeaux nozzle and four feet of discharge hose. Weight, 8 lbs. Price, \$7.00; add postage.



Utility Compressed Air Sprayer



No. 10

Tank—Size, $7\frac{1}{4}$ by 20 inches; capacity, $3\frac{1}{2}$ gallons. The convex flanged ends of 20-gauge material, the closely riveted and well soldered cylinder, double folded at top and bottom, makes the tank very strong. The standard hose connection permits the attachment of any garden hose and the brass filler opening is of ample size for filling without use of funnel. The tank should not be filled more than three-quarters full, to allow sufficient space for compressed air.

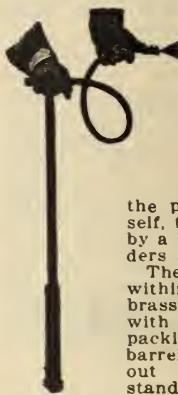
Pump—The plunger is fitted with a well-formed high-grade leather and operates easily in a heavy brass cylinder $1\frac{1}{2}$ inches by 15 inches long. The bronze ball check, seating on brass, will not deteriorate like rubber or

leather. The pump seals the tank opening with a threaded cap which can be removed without use of wrench.

Hose— $\frac{1}{2}$ -inch, 5-ply, 24 inches long, on standard hose connection with wire coil that prevents kinking, nozzle pipe and hose connection cemented into hose and fastened with brass ferrules.

Nozzle—Angle automatic, self-closing type, made of brass, equipped with strainer and two extra spray discs.

Galvanized tank, \$6.50; brass tank, \$9.00. Weight, 11 lbs. Add postage.



The Ideal

This pump does away entirely with the objectionable foot-rest, clamps, leather suction, packing, etc. It requires no fastening of any kind and holds itself down and works anywhere and everywhere. All the operator need do is to press the plunger down. It rises of itself, the upward stroke being made by a brass spring forcing the cylinders apart.

The all-brass suction working within a brass cylinder with all brass valves, does away entirely with all leather, rubber, or other packing. Will pump from a pall, barrel, tank, spring or creek. Without fastenings of any kind it stands firmly wherever placed.

Weight, 5 lbs. Price, \$3.00; add postage.



No. 20

Tank—Same size, material and construction as the tank used in No. 10 compressed air sprayer.

Pump—Placed in center of tank to prevent possibility of being damaged. The pump handle is non-breakable, as it is a continuation of the steel plunger rod, to which is fitted a well formed high grade leather, which operates easily in a heavy brass cylinder $1\frac{1}{2}$ inches in diameter by 15 inches long. The bronze ball check, seating on brass, will not deteriorate like rubber or

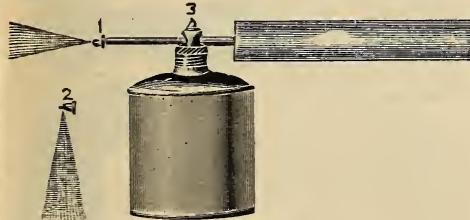
ber or leather when strong liquids or oils are used.

Hose— $\frac{1}{2}$ -inch, 5-ply, 24 inches long. Attached to tank with removable connection.

Nozzle—Straight Automatic, self-closing type, made of brass and equipped with strainer and two extra spray discs.

Galvanized tank, \$5.50. Weight 9 lbs; add postage.

Inland Continuous Sprayer

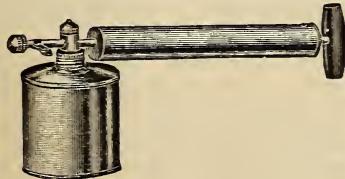


The Robertson Patent Pump enables the manufacturer to make a better sprayer than it is possible for any other manufacturer to make without infringing on this patent. This pump conserves all the energy that is put into it and the sprayer thus gives a continuous and powerful spray with an easy motion of the plunger.

These sprayers have a universal Nozzle that sprays up and down and to either side, in addition to the direct spray nozzle.

Price, tin, \$1.00; brass, \$1.50. Weight 2 lbs. Add postage.

The G. V. Continuous Variable Sprayer No. 1 Tin



This is the first continuous variable straight-way sprayer which takes the place of half a dozen different sprayers necessary for widely different purposes. For perfect atomization, every liquid must have its own peculiar air-mixture. It sprays lubricating oil or undiluted "Creso Dip" as readily as water.

The pump and atomizing head of the G-V Continuous Variable Sprayer will last indefinitely. A new container can be purchased, thereby giving you practically a new sprayer.

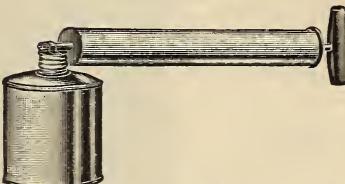
As a sprayer for paint the G-V Continuous Variable Sprayer has been thoroughly tested and has proven very satisfactory for use with brushing lacquers.

Capacity, 1 qt. Brass atomizing head. Pump, 12 inches long, $1\frac{1}{4}$ inch diameter.

Price, \$1.50; weight, 2 lbs.; add postage.

Container for No. 1, price, 40c; weight, 1 lb.; add postage.

The G. V. Intermittent Sprayer No. 5 Tin



The first intermittent sprayer with replaceable container, pump and head, making it doubly demountable. In others the pump and atomizing head—must be thrown away when the container rusts.

By far the heaviest material ever used in an Intermittent Sprayer.

50% more spray for the same effort, due to the absolutely new and patented atomizing head. Pump 14 in. long, $1\frac{1}{2}$ in. in diameter, capacity, 1 quart.

Price, 75c; weight, 2 lbs.; add postage.

Container for No. 5—Price, 40c; weight, 1 lb.; add postage.

Inland Special Sprayer



Inland Special Sprayer is a Single Tube Tin Sprayer. The pump cylinder measures $1\frac{1}{4}$ inches in length by $1\frac{3}{4}$ inches in diameter.

Sprayer is fitted with a $\frac{1}{4}$ -inch steel plunger rod; special type plunger. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Weight, 2 lbs. Price, 50c. Add postage.

Baby Midget Sprayer



A small size single tube Tin Sprayer for household use. Strong and substantial and possessing every feature of the larger types.

TANK: Tin, 3 inches in diameter, $2\frac{1}{4}$ inches long; $\frac{3}{8}$ -inch can screw for filling; $\frac{1}{4}$ -inch plunger rod. Black handle and plug. Pump tube, $1\frac{1}{4}$ inches in diameter, 10 inches long. Length over all, $15\frac{1}{2}$ inches. Capacity, about $\frac{1}{2}$ -pint. Price, 40c. Weight, 1 lb. Add postage.

Household Sprayer



This sprayer is particularly designed for household uses and handles fly oils, moth preventives and all household disinfectants. Price, 25c. Weight $\frac{3}{4}$ lb. Add postage.

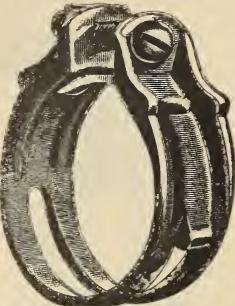
Insect Powder Blower

Price, 25c and 35c; postpaid, 30c and 40c.

PUMP ATTACHMENTS**Clamps**

Two of these clamps can be used on our long shank couplings and mender.

Price, postpaid, each 10c; 3 for 25c; dozen, postpaid, 90c.

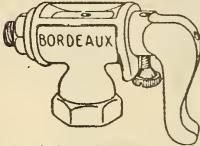


HOSE CONNECTION—To connect $\frac{1}{2}$ -inch hose to spray rod. Price, each, 35c; postpaid, 40c.



HOSE COUPLING—With hexagon nuts and double length shank, so will not put or blow out. To connect $\frac{1}{2}$ -inch hose.

Price, per pair, 85c; postpaid, 90c.
Female half only, 50c; postpaid, 55c.
Male half only, 50c; postpaid, 55c.

NOZZLES

BORDEAUX—The handle is built close down to the body and is shaped so as to avoid catching in the branches. The corners of the slot are cut away, leaving plain straight faces which form a clean-cut spray without ragged edges. Price, \$1.25; postpaid, \$1.30.

CLIPPER (Patented)—The spraying lips are so shaped that all parts of the spray travel the same distance from the lip. It throws either a fan-shaped spray, a long-distance spray or a solid stream. Especially adapted for whitewashing. Price, \$1.25; postpaid, \$1.30.

MAJESTIC ANGLE—Throws a very large, beautiful, penetrating spray. Fitted with removable eddy chamber. The nozzles can be easily taken apart and cleaned. Wearing parts are cheaply and quickly replaced. Extra metal disc furnished with each nozzle. Price, \$1.00; postpaid, \$1.05.

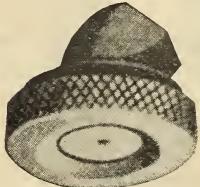


Illustration shows Angle Adjustable Nozzle in the extended form on spray rod. Valves of nozzles are brass with unusually

large waterways and strainer to prevent clogging when spraying whitewash or other heavy mixtures.

With our patent feature the shut-off is always at discharge end regardless of what length of pole is used. This eliminates use of stop-cock. Nozzle seats are brass, not rubber.

Price, each, \$2.00; postpaid, \$2.05.

VERMOREL—

This nozzle throws a beautiful, misty, circular spray. All trouble caused by clogging in the bend is avoided by having the stem detachable. This also shows the nozzle to be turned at any angle desired. Price, \$1.00; postpaid, \$1.05.



1/4 NOZZLE ELL—It is very important to spray down into the blossom. This piece has just the right angle and screws onto the end of any spray rod. Then attach the nozzle.

Price, 25c; postpaid, 30c.



1/4 NOZZLE Y—The Brass Y shown here will screw onto any spray rod, and all kinds of spray nozzles screw into the other two ends. This is intended for use when two nozzles on one rod are desired.

Price, 50c; postpaid, 55c.

ANGLE NOZZLE Y— $\frac{1}{4}$ -inch. Price, 50c; postpaid, 55c.

**Hose**

The high pressure and corrosive and oily materials used in spraying are very destructive to ordinary spray hose, and have caused many persons to believe that hose for this purpose cannot be relied upon to last out a season's hard usage. Our Spray Hose is constructed and treated on purpose for this use, and as it saves annoyance and lasts longer, it is much more economical. Furnished in $12\frac{1}{2}$, 25 and 50 foot lengths. 5-ply 25c per foot. For power sprayers, 30c per foot. Price subject to change.

This is of extra fine quality. $\frac{1}{2}$ -inch size.

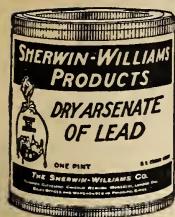
Fittings, \$1.00 extra. Fittings consist of one hose connection, one female coupling and four hose clamps.

Hose Washers, $\frac{1}{2}$ -inch rubber, doz., 10c.

SPRAY MATERIALS AND INSECTICIDES

It is important that the orchardist should become familiar with the name and character of the different diseases and pests. If the disease is not known apply to your inspector for information. Specimens of diseased fruit or leaves or other portions of trees or plants may be forwarded to your state experiment station without cost, where a careful microscopical examination will be made and the disease identified.

Arsenate of Lead



Owing to unsettled conditions the quotations made on spray materials are not guaranteed. Write for price, stating size and quantity wanted.

Powdered

Dry Powder Arsenate of Lead mixes quickly and easily; and is very adhesive. Dry Powder Arsenate is a light, fluffy powder that cannot freeze, dry out, cake or lose its strength.

Dry Powder Arsenate of Lead may be mixed with water and applied as a liquid spray or it may be used as a dust spray. If applied as a liquid spray it is usually used 1 pound to 1½ pounds to 50 gallons of water. For potato beetles and other insects that are hard to kill use two to three pounds to 50 gallons of water. ½ lb., 25c; lb., 40c; 4-lb. pkgs., 80c; case of 12, 4-lb. pkgs., \$9.25; 2 cases, \$18.00.

BORDEAUX MIXTURE

Dry Bordeaux is a dry powder. Keep tightly closed and away from moisture as much as possible.

It stays in suspension well, adheres to the foliage and can be used in combination with Paris Green, Arsenate of Lead or other insecticides with an extraordinary degree of safety. 1 lb., 40c; 5 lbs., \$1.00; 8 lbs., \$1.40.



DRY LIME SULPHUR

Containing Other Compounds

Directions: From ten to twelve pounds of Dry Lime Sulfur dissolved in fifty gallons of water should be used as dormant spray against scale, insects, etc. From two to three pounds to fifty gallons of water in combination with the usual proportion of Dry Arsenate of Lead should be used for summer spraying on all seed fruits, such as apples, pears, quinces, etc. From one to one and one-half pounds to fifty gallons of water in combination with the usual strength of Arsenate of Lead should be used for summer spraying of peaches, plums and all stone fruits.

Price, lb., 30c; 5 lbs., \$1.20; 10 lbs., \$2.20; 25 lbs., \$3.75; 50 lbs., \$6.75; 100 lbs., \$11.50; 200 lbs., \$21.00; 25-lb. paper bag, \$3.00.

Spreaders

What is known as a Spreader has been highly recommended the last few years to be used in connection with spraying, as it increases the adhesiveness of the spray and tends to give a more uniform coating, thus completely covering the surface. Price, lb., 30c; add postage.

Paris Green



Poor Paris Green is dear at any price. Effective against all chewing insects. Price, ¼s, 20c; ½s, 40c; 1s, 60c; 5 lbs., \$2.50. Not mailable.

Tobacco Dust

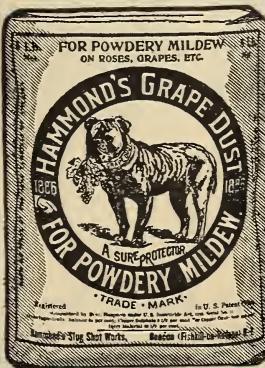
For green and black aphids, fleas, beetles. Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.75; 50 lbs., \$5.00; 100 lbs., \$8.00; add postage.

All quotations on spraying material subject to change. If you want a quantity write for prices.



For destroying slugs, cabbage and turnip flea, currant worms, etc. Lb. pkg., 30c; 5-lb. pkg., \$1.00; add postage.

Hammond's Grape Dust



To prevent mildew on roses, grapes and gooseberries. Lb. pkg., 35c; 5 lb. pkg., \$1.25; add postage.

Black Leaf 40

A Concentrated Solution of Nicotine-Solution (Poison)

For the convenient information of those desiring to use "Black Leaf 40" the following suggestions are made.

Against sucking insects, such as Green and

Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrips, etc. 1 part "Black Leaf 40" to about 900 to 1,000 parts water.

Against more resistant plant lice, such as Black Aphis and Rosy Apple Aphis, 1 part "Black Leaf 40" to about 500 to 700 parts water.

The addition of one or two pounds of any good soap, or of Whale Oil soap, to each 50 gallons of water is often very advantageous. When using dissolve the soap in the water before adding "Black Leaf 40."

Price, 1 oz. bottle, 35c; $\frac{1}{2}$ lb. tin, \$1.25; 2 lb. tin, \$3.25; 10 lb. tin, \$11.85. Not mailable.



The active principle of Ever Green is Pyrethrum, or insect flowers. Pyrethrum is a flower closely resembling the field daisy. It is grown in Japan and Dalmatia.

Pets, poultry, livestock and birds are safe. Garden produce such as lettuce, celery, greens, cucumbers, etc., can be eaten uncooked without the slightest danger.

TWO TYPES OF INSECTS



There are two types of insects—chewing, which eat the leaves and blossoms; sucking, which suck the sap from leaves or stems.

EVER GREEN kills both chewing and sucking insects. The sucking insects must be killed by "contact." Chewing insects can be killed by spraying insecticides on the leaves that they feed on.

ADVANTAGES OF USING EVER GREEN

Non-poisonous. Non-injurious to plants, blossoms or foliage. Kills chewing and sucking insects.

	Postpaid
1-oz. bottle	\$0.25
6-oz. bottle	1.00
16-oz. bottle	2.00
32-oz. can	3.50
Gallon can	13.00
	13.35

Carefully packed but safe delivery not guaranteed.

All Round Spray

All Round Spray will sweep away your insect troubles. A Triple service product composed of the three major classifications of pests. Effective, yet hardly more than the price of one.

Nicotine Sulphate—to control sucking insects such as aphids (plant lice), thrip and leaf hopper.

Arsenate of Lead—to destroy the chewing insects, slugs, beetles, caterpillars, worms.

Bordeaux Mixture—to prevent blight and fungous diseases.

$\frac{1}{4}$ lb., 40c; 1 lb., \$1.00. Not mailable.



Bait-M

A thoroughly effective meal bait designed to combat snails, cutworms and grasshoppers.

Bait-M is packed ready for use in dry powdered form without the necessity of any additions, mixing or muss. It is an ideal product to give the housewife, home owner and farmer a means of protecting shrubs, plants, vegetables and flowers from the ravages of snails, cutworms and grasshoppers, at least one of which is troublesome in every section of the country.

Bait-M should not be dusted on the plants themselves. Since the insects for which this product is recommended migrate on the ground, Bait-M should be spread in winrows on the ground under the plants to be protected.

1 lb., 35c. Not mailable.

Garden Guard

A convenient and economical garden insecticide and fungicide ready for use as it comes in the package. Just sift from the shaker top carton on plants. Apply when plants are damp, early in the morning or late in the evening when the dew is on.

Insecticides like Paris Green, Arsenate of Lead, etc., are deadly poisonous and dangerous for use on vegetation to be eaten. GARDEN GUARD will combat the pests and at the same time is of little danger to human and plant life if ordinary care is used.

1 lb., 30c; 5 lbs., \$1.00. Not mailable.



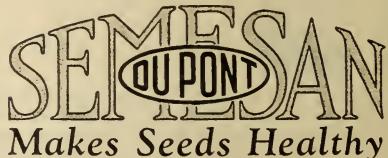
Strawberry Weevil Bait



GO-WEST

Go-West is a bait specially prepared to combat the ravages of strawberry weevil. This is recommended by authorities as it has proved to be highly successful.

50-lb. bag, \$8.00; 100-lb. bag, \$15.00. Less than 50 lbs., 20c.



Semesan Disinfectants have revolutionized seed disease treatment and represent the most remarkable advancement of the century in scientific agriculture.

This modern disinfectant comes in dust form and can readily be applied to prevent or control effectively a most diversified variety of parasitic diseases and fungoid growths borne by seeds, plants, grafts and soil. Semesan is harmless to seed and plant life but extremely poisonous to disease and fungous organisms. It generally also hastens germination, produces sturdier plants, promotes earlier maturity and increases both the quantity and quality of crop yields.

DIRECTIONS

For most flower and vegetable seeds use one ounce of Semesan to each 15 pounds, but to dust field crops use two ounces per bushel for the large varieties of seeds or three ounces for the

small kinds. Put the seeds with the Semesan dust in any convenient receptacle and shake or rotate for three to five minutes.

Price, 2 oz. tin, 50c; 8 oz. tin, \$1.60; 1 lb. tin, \$2.75; 5 lb. tin, \$13.00. Not mailable.

SEMESAN JR.—Is exclusively a dust disinfectant used for the ear, root and stalk rots of field and sweet corn. By a simple, inexpensive dusting of seed corn with Semesan Jr., not only are these diseases controlled but substantial yield increases are made possible.

It is used at the rate of 3 ounces per bushel of seed. The cost therefore ranges from only about 4c an acre of field corn to 6c or 7c per acre of sweet corn.

Prices, 4-oz. tin, 60c; 1-lb. tin, \$1.75; 5-lb. tin, \$8.00. Not mailable.

SEMESAN BEL—Can be applied in a few minutes to whole or cut seed potatoes, either as a dry powder or a whitewash-like water mixture. In widely separated potato-growing sections it has influenced quicker sprouting, earlier maturity and has caused greater yields and better disease-control than any other treatment known.

Dry seed potatoes may be most conveniently disinfected before cutting by gently rolling them and the Semesan dust together in a barrel or other cylindrical container for three to five minutes or until the tubers are thoroughly coated.

As a result of scientific research, there has been produced a new and improved type of Semesan Bel which is still more effective than its famous predecessor and will treat approximately twice as many bushels of seed potatoes, thus doubling its value, as there will be no increase in price.

The New Improved Semean Bel shows substantial improvements in disease control efficiency, especially against seed-borne scab and rhizoctonia. The new product also goes into water suspension still more readily than did the old, and also dries quicker on the potatoes and has been observed to cause still less discoloration of cut seed surfaces.

1-lb. tin, \$1.75; 5-lb. tin, \$8.00; 25-lb. pail, \$37.50. Not mailable.



Directions

BARLEY—Put one pint in 40 gallons of water, dip barley in loose gunny sacks, soak for two hours; spread out and dry after draining.

OATS—Use one pint in 10 pints of water. This quantity, 11 pints, will treat 55 bushels at the rate of 1 pint to 5 bushels.

POTATOES—Use one pint to 15 gallons of water. Heat solution 118 degrees to 122 degrees Fahr. in tank with heater. Dip uncut potatoes for two minutes either in sacks or crates, then cover with canvas for an hour.

WHEAT—Put one pint in 40 gallons of water and follow directions given for barley, or any other plan that the farmer may prefer.

Price: Pints, 60c; quarts, \$1.00; gallon, \$3.50; 5-gallon can, \$16.50. Pints and quarts packed in glass. Gallons in glass or jugs. Packed carefully but safe delivery not guaranteed. Not mailable.

Bluestone

Used successfully in winter sprays, also used largely for the treatment of wheat to prevent smut. 1b., 20c, postpaid—use one pound to 5 gallons of water. If wanted in 100-lb. or barrel lots, market price.

Copper Carbonate

The remarkable effectiveness of Copper Carbonate as a fungicidal dust in the control of wheat smut is now well recognized by wheat growers generally.

Copper Carbonate possesses every requisite physical and chemical quality to insure maximum results. 99% will pass through a 200-mesh sieve, and in addition to being so light, fine and fluffy, has exceptional adhesive and covering properties. By analysis it shows:

Copper	54-55%
Equivalent to	
Basic Copper Carbonate	97-98%
Inert	2-2%

Two ounces per bushel is sufficient to insure full coverage, though no harm will result if more is used. It causes no injury to germination.

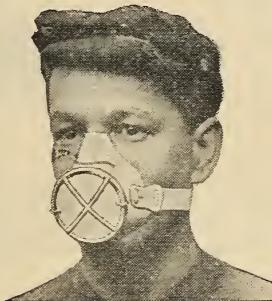
Avoid inhaling the Copper Carbonate dust. The treated grain should not be fed to chickens or livestock.

Put up in 200-lb. barrels, \$50.00. Less than barrels, 26c per lb. Less than 25 lbs., 28c per lb. Less than 10 lbs., 30c. Not Mailable.

As the use of insecticides and fungicides are beyond our knowledge and control and involving elements of risk to vegetation, we do not make any warranty, express or implied, as to the effect of such use whether or not used in accordance with directions or claims so to be.

Write for prices, stating size wanted.

Respirators



Made of suitable, specially prepared rubber with the contacting edge so shaped and tapered that the cup hugs any face, thus making all the air come in through the filter. Permits free breathing and does not interfere with vision.

For comfortable protection at dusty work, such as handling dry chemicals, dry colors, facing, plaster, fertilizer, metallic powders, soap powders, and other dusty material.

Price, \$1.75; postpaid, \$1.85.

Cyanogas



Kills by giving off gas on exposure to the moisture in the air. This characteristic makes it easy to apply.

The residue after the gas has escaped is largely ordinary slaked lime, which is harmless to stock.

CYANO GAS—For controlling Ants, Rats, Moles, Fleas, Gophers, Sage Rats, Prairie Dogs, Ground Squirrels, Wireworms, Snails, Slugs, Grape Leaf Hopper.

ANTS—Enlarge main opening with sharp-

ened stick to depth of six inches; pour in tea-spoonful of Cyanogas.

For large nests, make holes about eight inches apart; pour in tablespoonful.

A line of ants entering the house may be stopped immediately by placing small amounts of Cyanogas at intervals along their path.

GOPHERS—Early in the morning open runways near fresh mounds; insert 2 tablespoonfuls in each opening—or

At intervals in runway, insert 4 ounces; close opening.

GROUND SQUIRRELS—With long-handled spoon insert 2 ounces in each burrow opening. Columbian Ground Squirrel—With long-handled spoon insert 1 ounce in each burrow opening. Sage Rats and other Small Squirrels—One ounce, with long-handled spoon.

Granular—1 lb., 75c; 5 lbs., \$1.50; 25 lbs., \$5.00; 100 lbs., \$18.00.

A-Dust—1 lb., 75c; 5 lbs., \$2.50; 25 lbs., \$5.25; 100 lbs., \$19.00.

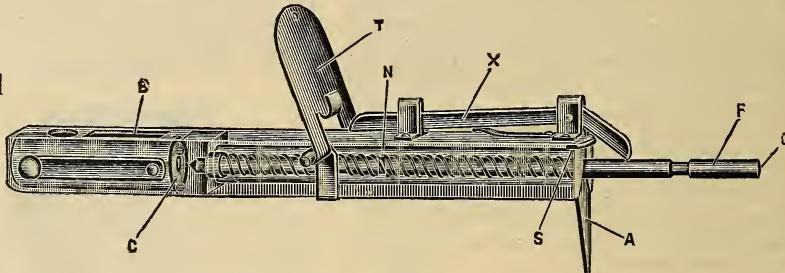
G-Fumigant—1 lb., 75c; 5 lbs., \$3.50; 25 lbs., \$10.00; 100 lbs., \$30.00. Not mailable.

Woodlark Squirrel Poison



Requires no mixing preparation—always ready for use. When you buy demand the best. Get the "Woodlark" brand. Lb., 45c; 10 lbs., \$4.00. Not mailable.

Never Fail Gopher Gun



Load gun with a 38 S. & W. Blank cartridge and set in gopher tunnel. Within a few minutes the gopher will attempt to close the hole setting off the gun. The concussion kills them every time. For Moles, dig down to main run and set same way. It will rid your place of gophers, moles, rats, squirrels and all burrowing pests. Price, \$2.00; postpaid, \$2.10.



GAS BALL RODENT KILLER—Pours forth a deadly poisonous gas that carries death to any living thing in the burrow. Although it means absolute destruction to the rodents, it is perfectly safe for the farmer to handle and cattle can not be injured or endangered by its use.

Directions

Keep the balls dry. If stored in a damp place or exposed to the damp air they are liable to absorb the moisture. If they should become

damp, dry them out well in a warm open oven for an hour or so before using.

Light the sharp edges of two Rodent Killer Gas Balls with a torch or match, and after the balls are ignited and burning freely, roll them as far as possible into the burrow. Cover the hole with sod and seal tightly so that none of the gas fumes can escape. Throw no fine dirt on the burning balls.

The limit of air poisoned by one treatment as mentioned is eight cubic feet.

Price, doz., 45c; 50, \$1.50; carton of 125, \$3.00; 500, \$10.00; 1,000, \$19.50. Carton weighs 10 lbs. Add postage.

We recommend our Blue Tag Utah Grown Certified Grimm Alfalfa.

Our vegetable seeds are the best obtainable. Secured from eight different states, also from Europe.



Mouse Seed can be used without bait, without traps, without muss.

Mouse Seed is real seed—that kills mice. It attracts them wherever it is left. It does not deteriorate with age.

Pour a pile of seeds out of the package on a saucer. The mice, attracted by the flavor, will gnaw the kernels, leaving the husks. When you still find seeds and no more husks you know there are no more mice.

The cleanliness, safety and certainty of Mouse Seed make it the ideal means of exterminating mice. It replaces pastes, powders, and traps.

Oz. packages, 25c; lb. packages, \$2.00. Postpaid, 30c and \$2.10.

K. M. G.

KILLS MORNING GLORY

The root of the Wild Morning-Glory plant is often fifteen feet or more in length. For this reason, it is next to impossible to eradicate it by cultivating. At best, only temporary control can be obtained; and this, authorities say, only when the patches are cultivated every five days.

This means constant labor and constant expense.

The one satisfactory way to eradicate Wild Morning-Glory is to kill the root. And that is exactly what K-M-G does. Applied as a liquid spray to the leaves and stems, it is absorbed and distributed throughout the entire root system—killing the entire plant. One or two sprayings solve the Wild Morning-Glory problem permanently. Wild Morning-Glory treated with K-M-G is dead—dead beyond any chance of resurrection.

K-M-G is a liquid chemical spray, containing chloride of arsenic in an acid solution.

The ideal condition for obtaining a 100 per cent root kill with K-M-G is to spray old, tough, fibrous plants, growing in a hard, dry soil. Only the mature plants can absorb and convey the poison into the root system. A full grown plant properly sprayed never returns.

IMPORTANT

Plants must be mature.

Surface soil must be dry.

Work close to the plants.

Soak every stem with spray.

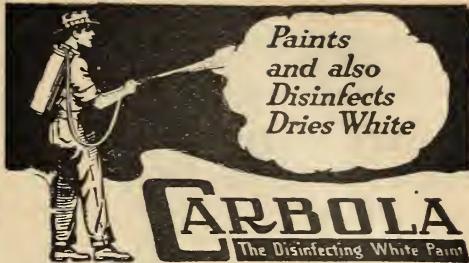
Protect your clothing.

Mix thoroughly 1 part to 16 of water.

Remember it is a poison.

1-gallon bottle, \$2.00; 5-gallon drum, \$9.00;

10-gallon drum, \$16.00.



Turns the whitewashing job into pleasant rainy-day work that can be done easily and quickly at a saving of time, labor and money.

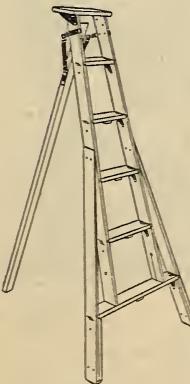
THE POWDER OF MANY USES

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. One pound covers 100 square feet.

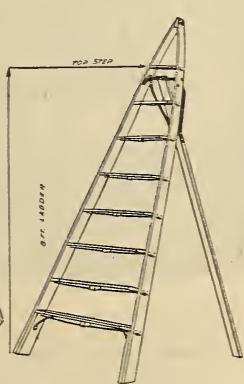
Price, 10 lbs., \$1.85; 50 lbs., \$7.50; add postage.



No. 60



No. 200



No. 70

No. 60—6 and 8 feet, as per cut, without clamps or extension legs, 60c per foot.

No. 65—6 and 8 feet, same ladder as No. 60, but with clamps fastening steps to side of ladder, 62½c per foot.

No. 200—10 and 12 feet, same as shown in cut,

including clamps and extension legs, 65c per foot.

No. 190—10 and 12 feet, same as No. 200, but without extension legs, 62½c per foot.

No. 200—14 feet, 75c per foot.

No. 70—10 and 12 feet, 70c per foot.

CLOVER LEAF FRUIT PICKING BAG

The Clover Leaf Picking Bag is constructed of heavy canvas with a spring steel frame at top. The lower end of the bag folds squarely back to the steel frame at the top. The lower portion of the sack being held securely by means of an ingenious fastener attached to the steel frame.

When one wishes to empty the filled sack, it is but the work of a moment to release the cords from the fasteners and the fruit may then be gently deposited in the boxes.

Price, \$1.75. Weight, 3 lbs. Add postage.

Price subject to change.

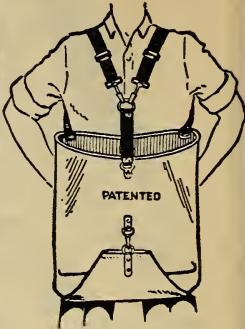


Inland Fruit Picking Bag

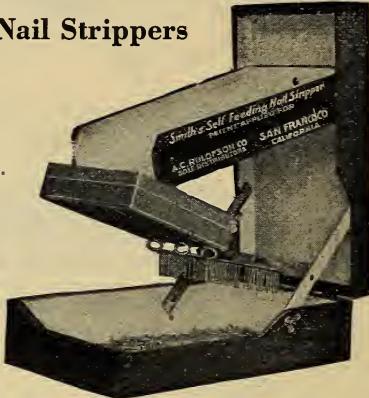
The mouth of the bag is always open, being constructed with a novel shaped metal frame so that the hands of the pickers can go with the fruit to the bottom of the bag. Bottom of the bag is opened instantly by the snap and fruit is emptied out without bruise or injury.

When snapped at top loop the bag will hold one-half bushel; when snapped at bottom loop as shown in cut the bag will hold about a bushel.

Price, \$2.50. Weight, 3 lbs. Add postage.



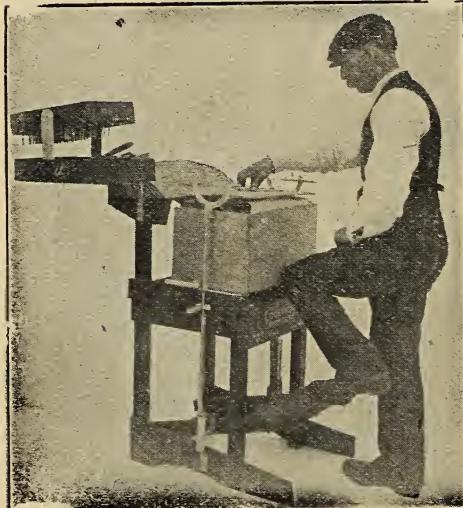
Nail Strippers



Self feeding. No time lost in keeping full.

Adjustable. Handles all size nails from 2 d. to 10 d.

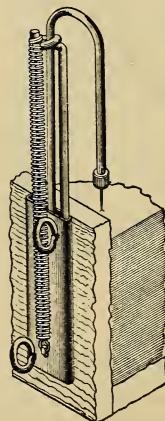
Smith's (cut). Price, \$11.75. Weight, 8 lbs. Add postage.



All fruit growers sooner or later feel the need of a good, durable and handy LID PRESS.

SAVING TIME is just as essential in the packing house as it is in the shop or factory. A number of special features of the Edgemont Lid Press are time savers, which are quickly appreciated by the user. The stripper nail box delivering the nails all pointed down; the placing of the lids in position endwise by the clamping yoke; the little spring attachment holding the cleat in place, all tend to make nailing an easy, quick and simple operation. Price, \$28.00.

Price subject to change.



Paper Holder

A model of simplicity, handiness and usefulness.

Saves paper and increases the speed of the user. An all-purpose holder and a necessity for every fruit packer.

Holds from one to 1600 wraps. Neat, rust-proof and lasting. Folds up and can be carried in pocket. Price, \$1.00.

PRUNERS

Bastian Pruner

The powerful lever of the Bastian Pruner enables one to do the same work in half the time and with half the labor that would be required with old-style Pruner.

Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable.

Feet	Price
6	\$1.75
8	2.00
10	2.25
12	2.50
Handle slides	20c
Blades	30c
Blade Screws	10c



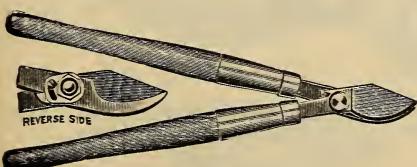
Cronk's Wood Handle Pruning Shears



Bastian

NO. 9½.

Steel ferrule. Notched hook (patented), prevents slipping, gives greater leverage, and makes cutting easier. No. 9½, 26 inches. Weight, 3 lbs. Price, \$1.75; add postage.



FRESNO PATTERN — Forged from high grade tool steel, finely tempered. Solid wrought steel ferrule. Has lock nut and can not work loose and ruin the shears. Riveted handle. Strictly high grade and has no equal.

No. 126—26 inches, weight 3 lbs. Price, \$2.50. No. 130—30 inches, weight 4 lbs. Price, \$2.75. Add postage.



For use on trees, shrubbery, etc., to stop bleeding of sap after pruning, and prevent worm-boring. Used extensively by large nursery series and fruit growers.

Directions: Best results are obtained by applying Pruning Compound at the time pruning is done. Quarts, 75c; gallon, \$2.50. Not mailable.

Grafting Wax

One-fourth lb., 20c, postpaid, 25c; ½ lb., 30c, postpaid, 35c; 1 lb., 50c; postpaid, 60c.

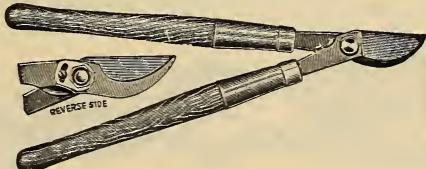
Beeswax

Put up in pound cakes.

Price, 80c; postpaid, 90c.

Raffia

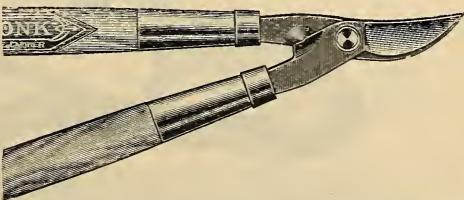
Natural color, for nursery work. Price, ¼ lb., 15c; ½ lb., 25c; 1 lb., 40c; postpaid.



CRONK'S EXTRA HEAVY — Forged from high grade tool steel and finely tempered, wrought steel ferrule polished. Has the Cronk patent locknut and can not work loose and ruin the shears. Riveted handle.

No. 226—26 inches, weight 3 lbs. Price, \$2.75.

No. 230—30 inches, weight 4 lbs., Price, \$3.00.



Blades and hooks forged from special selected quality tool steel and tempered. Handles and wooden finish with 4-inch steel ferrule and cap finished in black enamel.

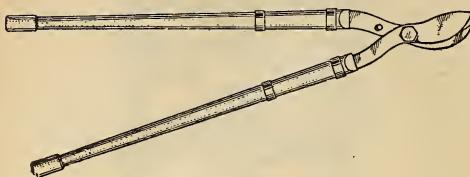
No. 326—26 inches; weight 3 lbs. Price \$2.50.

No. 330—30 inches; weight 4 lbs. Price \$2.75.

Add postage.

Pruner handles with ferrule. 20-inch, 50c; 24-inch, 55c; 30-inch, 60c each; weight 3 lbs. Add postage.

Hawley Pruner



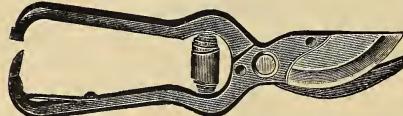
Why is the Hawley pruner superior to other pruners?

Keeps a keen edge. Knives are hollow ground. Light weight, only $2\frac{1}{4}$ lbs. Make a clean cut. Will not slip back.

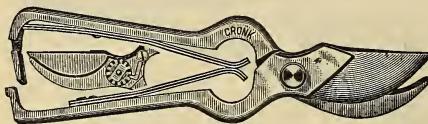
The blades in the "Hawley" Shear are made from alloy tool steel, especially chosen for toughness. The bolt is chrome nickel steel, and screws into the hook with a lock nut to insure staying in adjustment. Handles are hickory, and fastened on with steel rings crimped into the wood and guaranteed to stay.

Price, \$7.50. Mailing weight 3 lbs. Add postage.

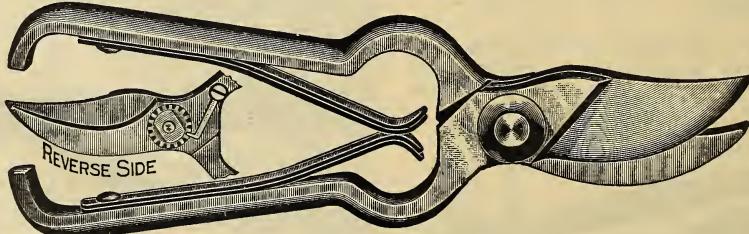
HAND PRUNERS



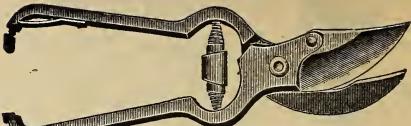
17—Length, 9 inches. Detachable polished tempered steel blade. Price, \$1.00; postpaid, \$1.10.



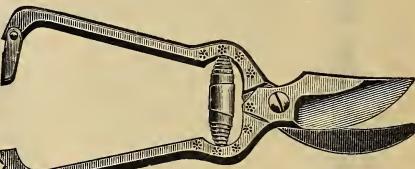
600—Forged from best cutlery steel, full polished, $8\frac{1}{2}$ inches. Price, \$2.50; postpaid, \$2.55.



No. 700—Ratchet nut. Brass spring. Extra quality steel. Length, $8\frac{1}{2}$ inches. Price, \$3.00; postpaid, \$3.05.



27—Length, 9 inches. Detachable blade of cutlery steel. Notched hook, forged from tool steel, full polished and tempered. Price, \$2.25; postpaid, \$2.30.



250—Forged from best cutlery steel. Nickel plated, 7 inches. Price, \$2.00; postpaid, \$2.05. Known as Rose or Ladies' Pruners.

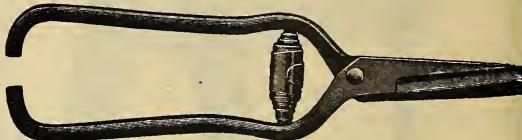
Springs

Volute springs for hand prunes. Each, 15c. Volute springs for No. 203. Each, 15c. Springs for No. 101. Each, 15c.

Grape or Thinning Shears



101—Length, $6\frac{1}{2}$ inches. Made extra heavy. Price, 50c; postpaid 55c.



203—Same as 101, but longer and has volute spring. Price, 60c; postpaid, 65c.

Examine our large assortment of well selected spring flowering Bulbs and Sweet Peas.

Inoculate all legumes with McQueen's reliable Inoculation.

Saws

No. 10. Tapered Pruner



The frame is made of extra high quality spring steel, $\frac{5}{8}$ of an inch wide and $\frac{1}{4}$ -in. thick. The blade is extra high quality Pruning Saw steel, 16 inches long. The handle is ATKINS new easy grip pattern and is in popular favor wherever used. It is made of beechwood thoroughly seasoned, highly finished and polished on the edges, fastened to the frame by two brass screws. The blade is adjustable so that the Saw will cut at any angle. Price, \$2.50; postpaid, \$2.60. Extra blades, 40c; postpaid, 50c.

No. 1. Atkins Table and Pruning Saw



The blade tapers from $2\frac{1}{2}$ inches to 1 inch, and is made of genuine Silver Steel. The finest steel that has ever been used in saw blades. The handle is of hardwood, finely finished, polished edge. Blade is 18 inches long.

Price, \$1.50; postpaid, \$1.60.



NO. 4

The blade is heavy-gauge and is of Atkins High-Grade Special Steel, tempered very tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade by three brass screws and a medallion. Blade 20 inches. Price, \$2.00; postpaid, \$2.10.

No. 2. Duplex Pruner



Made of Atkins Silver Steel, specially hardened and tempered. Will require very little resharpening. Toothing on one edge with tusk shaped teeth for extra heavy coarse work and with fine teeth on the opposite edge for fine cutting. The handle is of thoroughly seasoned, air-dried applewood, finely finished, varnished edge. Easy Grip Pattern, fastened to the blade by three brass screws. Length, 18 inches. Price, \$1.35; postpaid, \$1.45.

No. 18 Folding

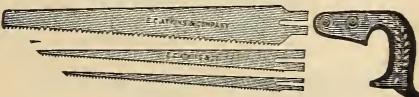


This is similar to the No. 13, except it is supplied with a folding handle, enabling the user to turn the tooth edge down for the purpose of putting in pocket. Made of silver steel, highly polished. Peg teeth pitched back so as to be right angle at cutting edge. Blade 14 inches long. Plain sanded beech handle. Nickel screw. Price, \$1.50; postpaid, \$1.60.

No. 13. California Pruner



The blade is of the finest quality Silver Steel which is superior to any other sawsteel. The curved blade makes cutting easy. The handle is of highly finished applewood. Blade is 14 inches long. Price, \$1.50; postpaid, \$1.60.



Nest No. 1

We recommend this set for general purposes. It consists of a keyhole, compass and pruning saw blade and handle as illustrated. Price, \$2.35; postpaid, \$2.45.



No. 8—The blade is heavy gauge and is of high-grade special steel tempered tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade by three brass screws and a medallion blade 14 inches in length. Price, 50c; postpaid, 60c.

Planet Jr. No. 2 Lawn Edger

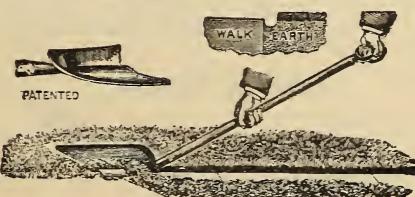


Planet Jr.

Neat, good looking lawns require that the edges be trimmed frequently. The No. 2 Planet Jr. Lawn Edger does this work satisfactorily and quickly. Should be a constant companion to your lawn mower and, after using it once, you will wonder how you ever did without it.

Price, \$1.60. Weight, 4 lbs. Add postage.

Lawn Edge Trimmer



With this tool the rough, straggling, overhanging grass along the edges of the walk can be trimmed in a few minutes. It plows a clean U-shaped trench, delivering the cutting on the sidewalk, making it appear as though a barber had performed the work.

Price, \$1.50. Weight, 3/2 lbs. Add postage.

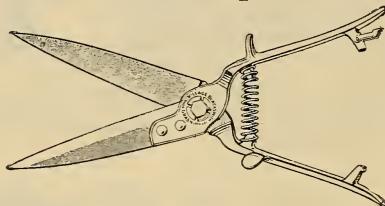
Grass Shears



NO. V52—With Trowel shank. Cutlery steel. 6-inch blade. Green enameled spring with full polished handles and cutting edges. Price, 75c; weight, 1 lb.; add postage.

NO. V2—Green enameled handle and spring. Full polished edges. With straight shank. Price, 60c; weight, 1 lb.; add postage.

Grasnip



NO. 1 GRASNIP—A practical all-around shear, for grass, vines, light shrubbery, etc., 6-inch cutlery steel blades; malleable red enameled hand grip. 12 inches over all. Price, \$1.25. Weight, 2 lbs. Add postage.

NO. 2 GRASNIP—Green enameled hand grip, semi-finish blades. Price, \$1.00. Weight, 2 lbs. Add postage.

Graswip



Made of forged steel. Cuts both with backward and forward swing. Full length 37 inches. Blade length, 9 1/4 inches; blade width, 1 1/8 in. Price, \$1.00; postpaid, \$1.10.

Grass Hook



Patented offset. Swings perfectly in the hand with little muscular effort. Forged cutlery steel. Tempered, ground sharp and whetted. Oil finish maple handle. Price, 65c; weight, 2 lbs.; add postage.

Hedge Shears



NO. 800—Forged mill finished tool, steel tempered, 8-inch blades, 9-inch handle. Clear se-

lected stock handles, riveted through heavy enameled ferrules, insuring absolute security. Best material and workmanship. A superior tool. Price, \$2.50; weight, 4 lbs.; add postage.

NO. 880—Serrated, 8-inch blade, 9 1/2-inch handle. A lighter, quicker cutting shear made for new growth hedge, topping shrubs and grass. Cutlery steel blades riveted to green enameled malleable tangs. Price, \$2.50. Weight 3 lbs. Add postage.

Asparagus Knife



Has long shank and blade for cutting the tips below the surface. Length over all, 15 inches. Octagon tool steel tempered. Price, 45c; Postpaid, 55c.

Labels



	Size	100	500	1000	Per 1000
Pot	4x 5/8	\$0.30	\$1.25	\$2.00	5 lbs.
Pot	5x 5/8	.35	1.50	2.50	6 lbs.
Pot	6x 5/8	.40	1.75	3.00	8 lbs.



Tree, painted, cop-				
per wired	3 1/2 x 5/8	.40	1.25	2.25
				6 lbs.

Add Postage

Berry Hallocks

Strawberry self-folding hallocks are tied in bundles of 250, and are known as deep, full-sized pints. Weight, 16 lbs.

Raspberry hallocks are also self folding and tied 250 in bundle, full pints but are known as the shallow type. We do not break bundles of either hallocks. Weight, 16 lbs.

Price of both, \$1.50 per bundle, or \$5.50 per M, and subject to change. Add postage.

Celery Tape

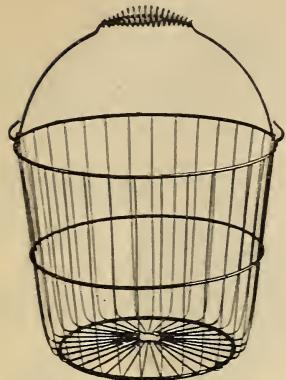
Put up in spools of 1,000 yards.

Price, \$4.50. Weight, 3 3/4 lbs. Add postage.

Tin Tops

Packed 500 in crate. 3-lb. size, \$14.00 per M; 5-lb. size, \$15.00 per M.

BASKETS



Half bushel Picking Basket, with bail, No. 6 gauge hoops. No. 11 gauge body wires, mesh $\frac{1}{8}$ inch at bottom and $1\frac{3}{16}$ inch at top, galvanized finish. All joints electrically welded. Will not rust. Price, \$1.25. Weight 10 lbs. Add postage.



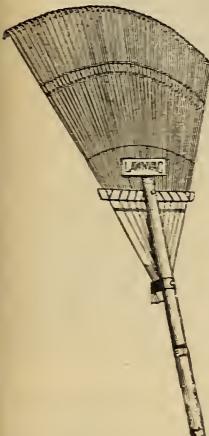
10-inch, 25c; $\frac{1}{2}$ doz., \$1.35; doz., \$2.50.
12-inch, 30c; $\frac{1}{2}$ doz., \$1.70; doz., \$3.25.
14-inch, 40c; $\frac{1}{2}$ doz., \$2.25; doz., \$4.25.
Mailing weight 10 and 12 inch, 2 lbs.; 14-inch, 3 lbs. Add postage.

Please note the construction of the basket here shown and you will readily see that the different wires are electrically welded together, thus forming a solid construction, making all parts equally durable, and thus making it impossible for it to fall apart.

Water-proof Jardinieres



The Sunlite Jardiniere is molded in one piece by a laminated process of water-proof "Cellulite" and is light and unbreakable. Holds water indefinitely. Does away with overflowing saucer. It's soft texture avoids scratching furniture or window sills. Measures $7\frac{1}{2}$ inches diameter at top, $4\frac{1}{2}$ inches diameter at bottom, $6\frac{1}{2}$ inches deep. Will hold 5, $5\frac{1}{4}$ and 6 inch pots. Bottom has two raised panels on which potted plant rests. This permits free drainage of water through bottom of clay pot and allows bottom to dry and air to circulate. Price, 50c. Weight 2 lbs. Add postage.



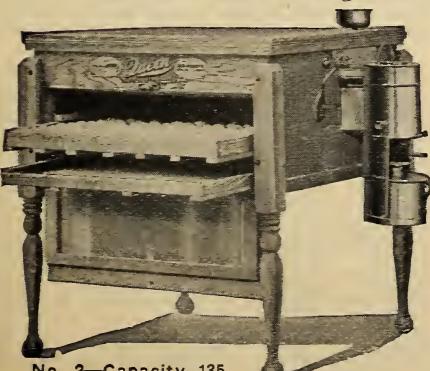
Lawn Leaf Rake

Light and durable. "As efficient as a vacuum cleaner for the lawn." Eighteen-inch spread. Forty-four teeth made of especially selected split bamboo, spaced a quarter of an inch apart. Teeth are especially processed so as to retain their shape.

Made of good materials—reinforced in five places—iron strap and two brass bolts at handle connections. Bamboo wire and reed spreaders, to add strength and maintain rigidity of teeth position. Measures five feet long and weighs only sixteen ounces.

Price, each, 40c.

Poultry Department



No. 2—Capacity 135

Queen Incubators

Queen Incubators are famous the country over for big hatches of strong, healthy chicks.

Provides uniform heat over egg chamber that is most natural for the hatching eggs.

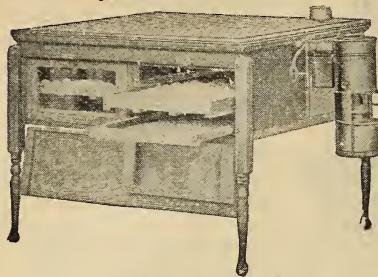
The Queen is doubly insulated. First, double walls of California redwood is used, thus forming a dead air space. Second, corrugated straw-board is used between the wooden walls.

Boiler and radiator of the Queen heating system is made of copper (not copperized tin), and placed close to the inner top of the incubator. This form of placing allows the heat to reflect from the floor of the egg chamber and to more evenly affect the germ which always rises to the upper surface of the yolk.

Western Price List Our Prices

No. 1—85-egg size,	\$30.50	\$25.00
No. 3—180-egg size,	\$48.25	42.00
No. 4—275-egg size,	\$62.50	55.00
No. 5—400-egg size,	\$73.75	65.00
No. 25—600-egg size,	\$116.00	100.00

Style K Incubator



Western Price List	Our Prices
No. 20—70-egg size, \$18.00	\$13.50
No. 21—130-egg size, 30.75	22.50

Style K Incubators are constructed of double wall redwood. The top of the machine is re-lined with insulation. The heater and pipes are made of aluminoid. The machine is equipped with the same expansion cup and thermometer as the regular Queen.

The regulator is the same as the Queen, except of lighter construction, and has a three-inch steel wafer.

Marvel Brooder Stoves



The highest type of constructive excellence is maintained in MARVEL Brooders. The grates and fire chamber are designed to produce the greatest heating power from a given quantity of coal. On the slightest temperature variation the Synchronized draft and check guarantees automatic thermostatic regulation. Equally adapted for hard or soft coal.

This brooder is fitted for a four-inch pipe.

No. 2—52-inch canopy. Price, \$20.00.

Leahy Brooder Stove

The Leahy stove is well made, strong and durable and will, without doubt, give satisfactory results. This is a very low price, and we have only a few of these in stock.

No. 3—52-inch canopy. Price, \$17.00.

Pipes—Elbows

No pipes or elbows furnished with stoves. Order as many lengths of pipe as you need, also elbow if needed, and add to price of stove.

3-inch caps, 50c.

3-inch elbow, 40c.

3-inch pipe, 25c.

4-inch elbow, 50c.

3 to 4-inch pipe, 35c.

3-inch roof plate, 60c.

4-inch pipe, 35c.

4-inch roof plate, 60c.

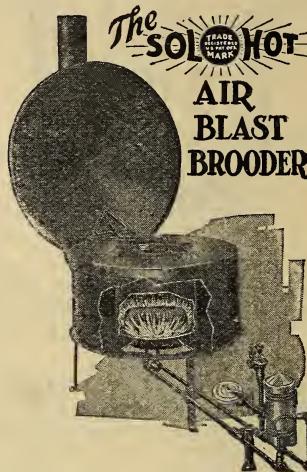
4-inch caps, 50c.

4-inch pipe, 60c.

When ordering pipe, caps, elbows or roof plates, be careful and specify whether you want three or four-inch. Our 3 to 4 inch pipe is 3 inches at one end and 4 at the other, thus making it possible to use a 4-inch pipe on a stove with a 3-inch opening.

Air Blast Brooder

SIMPLE TO OPERATE



The AIR BLAST will keep your brooder house warm in any weather. It makes the ideal equipment for the poultry raiser who wants to raise his chicks early. Whether you are raising 100 chicks or 2,000, the Air Blast will help you do it easily and economically. By partitioning your brooder house with wire netting, you can have chicks of all ages in your brooder house at one time. The Air Blast is designed to give you the maximum degree of heat from every gallon of oil consumed and so perfect is the Automatic Thermostat Control that it can be turned down so that the flame is no larger than you would burn in a house lamp, or it can be turned up to produce sufficient heat to keep the brooder house comfortable in zero weather.

It is truly a wonderful brooder—made throughout of best quality steel—nothing to wear out or get out of order. With an Air Blast Brooder, your brooder troubles are over—you can depend on it to keep your chicks warm and cozy regardless of how cold it is outside or how changeable the weather. The Automatic Thermostat Oil Control regulates the flame so that the temperature of the brooder house always remains at whatever degree you desire.

The Air Blast Brooder is furnished in one size only.

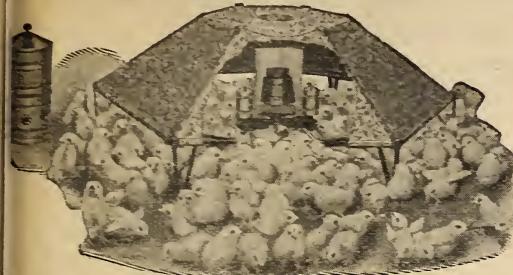
The Air Blast comes to you with the $\frac{1}{4}$ -in. iron piping all cut and fitted—you simply screw it together at the connecting joints—fill the oil container—put up your 4-inch stovepipe—light the burner—adjust the regulator to burn the size flame you desire.

Flame confined in steel screen. Hinged canopy top. Automatic thermostat control. Ten-gallon oil container.

Dimensions—Length of hinged canopy, 32 inches. Body, $24\frac{1}{2} \times 12$ inches. Height from center of canopy to floor, 27 inches. Shipping weight, 100 lbs. Stove pipe not furnished. Order elbow and 4-inch stove pipe if wanted.

Price—Brooder, \$36.00. Elbow, 50c. Stove Pipe, 30c. Extra 5-foot lengths of copper tubing to go between oil container and float valves with couplings, 75c each.

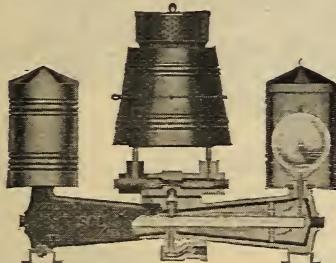
Sol Hot Brooder Stove



New Standard Sol-Hot Brooder

The new improved Sol-Hot embodies the fundamental principles that are absolutely necessary in a heater for the successful hatching and rearing of chicks. It is the one heater on the market that is absolutely automatic. Once the burner is lighted it cannot go out as long as there is oil in the oil supply tank.

AUTOMATIC TWIN-FLOAT OIL LEVEL



You never have to give the question of oil level a moment's thought—the twin-float takes care of that automatically. You set the Sol-Hot anywhere, level, tilted or on an angle—it makes no difference; the twin-float oil level automatically levels the oil in the burner well and keeps it at the proper level all the time, regardless of any uneven or unfavorable floor conditions.

DOUBLE-FEED WICKLESS BLUE FLAME BURNER

This wonderful burner converts common kerosene into gas, producing the most intense, steady, uniform, blue flame without smoke, soot, or fumes. It has no wick to trim or carbonize—it won't burn uneven—it won't overflow—it won't flare up on one side—it won't go out as long as the oil supply lasts.

OIL CONTAINER CAN BE PLACED ANYWHERE

If you operate more than one brooder you can attach them all to one oil container.

A small copper tube is used to connect oil container to the burner and as the Twin-Float Oil Level takes care of keeping the oil level at the burner you can put your oil container where it will be most convenient for you.

The Sol-Hot Oil container is made of non-rusting terne plate steel; it is absolutely leak proof and has a capacity of two gallons of oil.

Canopy	Capacity.	Price.	Weight.
24-inch	100	\$12.50	30 lbs.
34-inch	275	17.75	50 lbs.
44-inch	500	21.00	60 lbs.
54-inch	1000	24.50	70 lbs.

Add postage.

GIANT SOL-HOTS

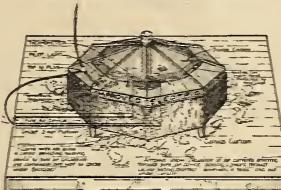
54-inch	\$27.50
64-inch	30.00

Giant Sol-Hots will not go by parcel post.

NEW GIANT SOL-HOT HEATER

To replace coal burning brooder stoves; can be shipped by express or freight only. Price, \$17.00.

Electric Brooder



The Mailwin Electric Brooder is simple in construction, efficient in service and made entirely of galvanized steel.

An even temperature is maintained and controlled by a thermostat.

The air holes in the ventilator can be opened or closed in accordance with necessary ventilation desired.

The Mailwin Electric Brooder is of fire-proof construction. All metal, double ceiled and asbestos lined.

With the special pure air device the chicks under the brooder breath pure air every second, something that has not been successfully done heretofore. All moisture is eliminated, no sweating of chicks when using a special platform with brooders.

The ventilation on top of brooder must be closed when using the special pure air device. This device is electrically wired and ready to tap in on your brooder cord.

SPECIFICATIONS FOR PLATFORM

No. 2 Brooder, 60 inches square and 3 inches high of light flooring.

No. 3 Brooder, 76 inches square and 3 inches high of light flooring.

Make an opening in center of platform 5½ inches in diameter. Platform not furnished.

PRICE OF BROODERS

No.	Capacity.	Diameter.	Price.	Weight.
1	150	30	\$17.00	26
2	250	40	22.00	35
3	500	54	33.00	60

Add postage.

Day Old Chicks



Chicks will be shipped direct from the hatchery thus avoiding delay in transit. If you want these expresssed to a station where there is not an agent it will be necessary for you to send additional to cover express charges. Send order and your remittance direct to us, giving date at about when you want them shipped. We will immediately forward order and have it booked for shipment at the time specified. It is advisable to place your order ahead, as by doing so there is much less likelihood of being disappointed.

Please note that the quotations made on chicks are prepaid, the right reserved to send either by express or parcel post. Full count and 100% live chicks guaranteed. If you find any dead, weak or in any way defective, have postmaster or express agent sign statement to that effect and mail at once to us.

Chicks forwarded by stage or to prepay stations are sent at owner's risk.

WHITE LEGHORNS.

	Prices—	25	50	100	500	1000
Hollywood Strain		\$4.50	\$8.50	\$16.00	\$75.00	\$150.00
Tancred Strain		4.50	8.50	16.00	75.00	150.00
O. A. College Strain		4.50	8.50	16.00	75.00	150.00
Brown Leghorns		4.50	9.00	17.00	85.00	160.00

BARRED PLYMOUTH ROCKS.

O. A. College Strain	5.00	9.50	18.00	87.50	175.00
Holtermann's Strain	7.00	13.00	25.00	125.00	240.00
White Rocks	5.50	10.50	20.00	95.00	175.00
Rhode Island Reds	5.00	9.50	18.00	87.50	175.00
Special Rhode Island Reds	7.00	13.00	25.00	125.00	250.00
Jersey Black Giants	7.00	13.00	25.00	120.00	240.00
Buff Orpington	5.50	10.50	21.00	100.00	200.00
Black Minorca	5.50	10.50	20.00	95.00	190.00

"Tycos" Incubator Hygrometer

Millions of chicks die in the shell every year for the want of proper moisture conditions. The "Tycos" Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each, \$2.00; postpaid, \$2.10. Hygrometer wicks, each 25c.

We pack thermometers and all glassware in as safe a manner as possible, but will not be responsible for their safe delivery, owing to the great risk of breakage.



Egg Tester

It is designed for use on an ordinary hand lamp. In a dark room the light will be strong enough to penetrate the shell and illuminate the interior of the egg. Price, 45c; weight, $\frac{3}{4}$ lbs; add postage.

Lamps

Order all lamps by number

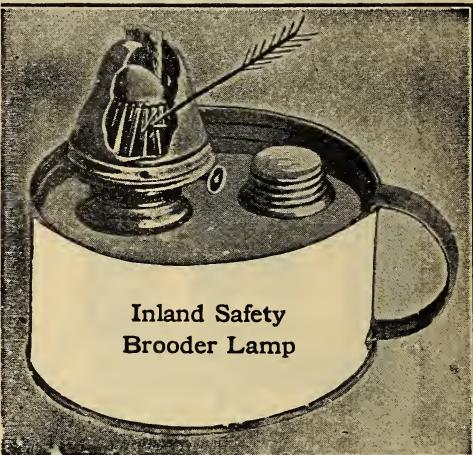
No. 3 Incubator lamp, with burner and wick. No. 3 burner, $3\frac{1}{4}$ inches diameter, $1\frac{1}{2}$ inch wick. Height of lamp bowl $3\frac{1}{4}$ inches; diameter $8\frac{1}{4}$ inches. Price, \$2.00; postpaid, \$2.10. If chimney wanted add 50c.

No. 4 Incubator lamp, with burner and wick; No. 2 burner, $2\frac{1}{2}$ inches diameter, 1-inch wick; height of lamp bowl, $2\frac{1}{2}$ inches, diameter 7 inches. Price, \$1.75; postpaid, \$1.85. If chimney wanted add 50c.

No. 5 Brooder lamp, complete with burner, wick and chimney; No. 3 burner, $3\frac{1}{4}$ inches diameter; $1\frac{1}{2}$ -inch wick; chimney, $3\frac{1}{4} \times 6$ inches; height of lamp bowl, $3\frac{1}{4}$ inches; diameter, $8\frac{1}{4}$ inches. Price, \$2.25; postpaid, \$2.35.

No. 6 Brooder lamp, complete with burner, wick and chimney; No. 2 burner, $2\frac{1}{2}$ inches diameter; 1-inch wick; chimney, $2\frac{1}{2} \times 5$ inches; height of lamp bowl $2\frac{1}{2}$ inches; diameter, 7 inches. Price, \$2.25; postpaid, \$2.35.

No. 7 Brooder lamp, complete with burner, wick and chimney; No. 32 burner, $3\frac{1}{4}$ inches diameter, 1-inch wick; chimney, $3\frac{1}{4} \times 3\frac{1}{4}$ inches; height of lamp bowl, $3\frac{1}{4}$ inches; diameter, $8\frac{1}{2}$ inches. Price, \$2.25; postpaid, \$2.35.



No. 8 brooder lamp. The Inland Safety Brooder lamp requires no chimney; never smokes, burns a steady flame. The air fingers carry fresh air direct to the flame. This gives perfect combustion and more heat for a given amount of oil than with any other burner. Top of lamp is made to hold water, and it is essential to keep water there owing to heat being reflected back upon the lamp. Weight, 2 lbs. Height of bowl, $4\frac{1}{4}$ inches; diameter, $7\frac{1}{4}$ inches. Price, complete with burner and wick, \$2.00; postpaid, \$2.10.

Lamp Bowls

For Incubator or Brooder to take No. 3 burner. Bowl, $3\frac{1}{4} \times 8\frac{1}{4}$ inches. Price, \$1.25; postpaid, \$1.35.

For Incubator or Brooder to take No. 2 burner. Bowl, $2\frac{1}{2} \times 7$ inches. Price, \$1.25; postpaid, \$1.35.

For Incubator or Brooder to take No. 2 or 3 burner. Bowl, $3\frac{1}{4} \times 8\frac{1}{2}$ inches. Price, \$1.25; postpaid, \$1.35.

Lamp Burners

No. 2 Sunburner. Price, 60c; postpaid, 65c.

No. 3 Sunburner. Price, 75c; postpaid, 80c.

No. 1 Zenith, no chimney, $\frac{3}{4}$ inch wick. Price, 60c; postpaid, 65c.

No. 2 Zenith, no chimney, 1 inch wick. Price, 75c; postpaid, 80c.

No. 32, $3\frac{1}{4}$ inch chimney, 1-inch wick. Price, 60c; postpaid, 65c.

Lamp Chimneys

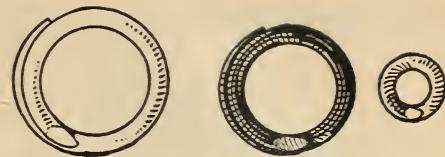
Chimney, $2\frac{1}{4} \times 5$ inches, for No. 2 burners.
Price, 50c; postpaid, 55c.
Chimney, $3\frac{1}{4} \times 6$ inches, for No. 3 burners.
Price, 50c; postpaid, 55c.
Chimney, $3\frac{1}{4} \times 3\frac{1}{4}$ inches, for No. 32 burner.
Price, 50c; postpaid, 55c.

Lamp Collars

For No. 2 burners, 10c each.
For No. 3 burners, 15c each.

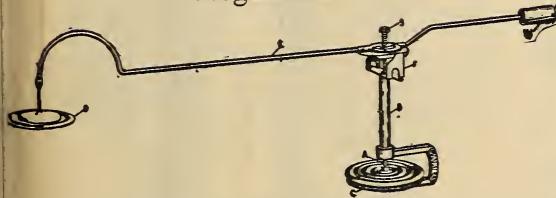
Lamp Wicks

No. 1, 2, 3, 5c each; 50c dozen.

**Spiral**

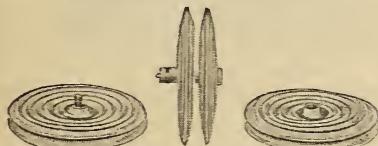
Made like a key ring, easy to put on. Birds identified easily on account of the different colors. Carried in white, green, black and pink for the following breeds: Asiatics—Brahma, Orpington and Langshans. Americans—Plymouth Rocks, R. I. Reds and Wyandottes. Mediterraneans—Leghorns, Minorcas and Anconas. Price: 12, 15c; 25, 25c; 50, 35c; 100, 60c, postpaid.

Pigeons. Price: 12, 15c; 25, 25c; 50, 35c; 100, 60c, postpaid.

Regulators

In this Regulator the wafer is inverted and as it expands it acts through the short lever beneath it on the connecting rod, and the down pull of the connecting rod so moves the top lever as to lift the damper. Accurate adjustment is secured through the adjustment nut and the upper end of the connecting rod. Weight, 1 lb. Price, \$2.50; postage paid, \$2.60.

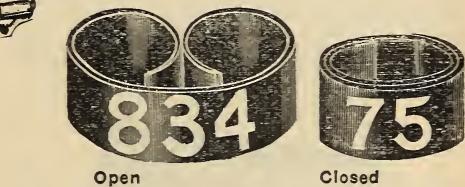
Wafer for this regulator. Each, \$1.00; postage paid, \$1.10.

Wafer Thermostats

Wafer Thermostats are made of two round concave discs, sealed together at the outer edge. The cavity between them is filled with a volatile liquid which is sensitive to changes in temperature.

3, 4 and 5 inch sizes with thread connection on lower side and beveled place on upper side, also same with solid point on lower side. All thermostats double brass.

	Postpaid.
3 inch	\$.50
4 inch	.75
5 inch	1.00

**Bandettes**

Bandettes are strongly made, will not become uncoiled and having a smooth, plain surface, do not get clogged with dirt to obscure the colors and numbers. The colors are not affected by weather, are always bright and distinctive. The bands spring back to their original size after being opened out to put on bird's legs.

Two sizes. No. 9 Leghorns. No. 11 Rocks, etc. Colors: Red, Yellow and Green. Price, doz., 40c; 25, 65c; 50, \$1.15; 100, \$2.00.

Reliable

In colors with printed numbers. Made of aluminum with colored numbered inserts. Adjustable. Supplied in colors: Red, Yellow and Green and with numbers from 1 to 100 in all the colors.

Price Doz., 40c; 25, 75c; 50, \$1.25; 100, \$2.25.

Petty's Poultry Punch

Latest, most convenient Poultry Punch; will not clog. Thoroughly practical. Postpaid, 25c.

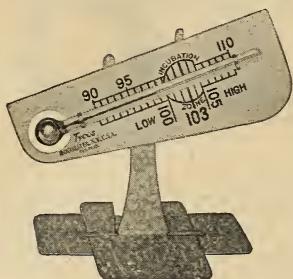
LEG BANDS**Champion**

This band is made in one piece, is adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of aluminum. Postpaid, 12, 15c; 25, 25c; 50, 40c; 100, 75c.

NOTICE

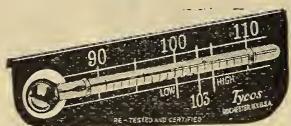
Thermometers and all glassware are carefully packed, but safe delivery not guaranteed and we will not be responsible for breakage. To insure safety send insurance fee with your remittance.

Incubator Thermometers



When used with Stand

5776 — **TYCOS INCUBATION-ZONE** — 4-inch white-enamaled metal scale with black figures and graduations; plain glass tube filled with distilled mercury; circle between the 100° and 105° points on the scale makes it easy to note whether the incubation temperature of 103° is being held. Price, \$1.00; postpaid, \$1.10.



When used without Stand

5783 — **TYCOS CERTIFIED** — Angle-pattern 4-inch black oxidized metal scale with white-filled figures and graduations; plain glass tube filled with distilled mercury; every fifth line and figures stamped on the scale and every single degree line engraved on the glass thermometer tube. Price, \$1.25; postpaid, \$1.35.

Brooder Thermometers



5436S



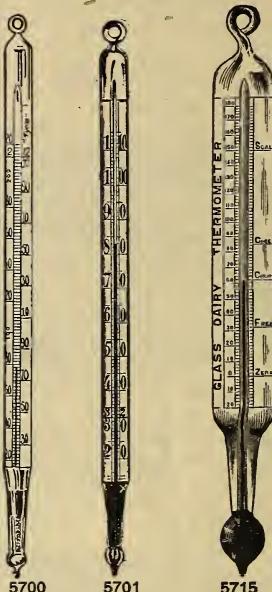
5792

5436S — A thermometer that will meet the demand for an inexpensive instrument, and yet not sacrifice too much in the way of accuracy or finish. Black finished brass scale, with white filled figures. Range 20° to 60° F. below to about 120° F. above. Metal case, magnifying lens tube, non-fading red permacolor filled. Price 75c; postpaid, 85c.

No. 5792 — Is what is known as mounted brooder thermometer and is designed for inserting through a hole in the top of the brooder,

the bulb being in the actual brooder temperature, and the scale outside for easy reading. Black lithographed metal scale, mercury filled tube, mounted on flat side of half-round wood frame. Length over all, 7 inches. Bulb protected by a tin guard. Ordinary grade. Price, \$1.00; postpaid, \$1.10.

Dairy Thermometers Glass Floating



5700 — **Churn Thermometer**. Glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to 110° F. in 1° graduations. American made; guaranteed accurate within one division of the scale. Best grade and workmanship. Price, \$2.00; postpaid, \$2.10.

5701 — **Pasteurizing Thermometer**, glass cylinder hand written paper scale, 2° graduation, accurate within one division of the scale, mercury tube. Approximate scale range, 30° to 220° F., 10 inches. Weighted to float upright. American made. Best grade and workmanship. Price, \$2.00; postpaid, \$2.10.

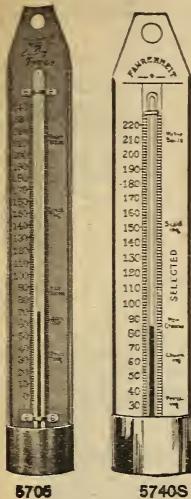
5702 — **Churn Thermometer**, glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to 110° F. in 1° graduations. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

5703 — **Pasteurizing Thermometer**, glass cylinder hand written paper scale; 2° graduation, accurate within one division of the scale; mercury tube; approximate scale range 30° to 220° F.; 10 inches; weighted to float upright. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

Please note that the description of 5700 and 5702 is exactly alike. This is also true regarding 5701 and 5703. Then note the difference in price and that the one is imported and the other is American made.

5715 — **All glass floating Churn and Pasteurizing Thermometer**. Approximate scale range 20° below zero to 150° above. Length, 8 in. Mercury filled tube. Best imported. Price, 50c; postpaid, 60c.

Flanged Metal Scale



5705—Flanged, metal scale Churn and Pasteurizing. Ten-inch electro silver plated scale, gold plated straps and screws, magnifying mercury filled tube, sliding guard; approximate scale range, zero to 220° F., 10 inches. Selected common grade. Price, \$2.00; postpaid, \$2.10.

No. 5740S—Selected Ordinary Grade. Brass scale with engraved figures and graduations sliding bulb guard; white back, permacolor filled tube; approximate temperature range 20° to 220° F.; length, 8 in. Price, \$1.00; postpaid \$1.10.



FEVER THERMOMETER—The normal temperature of the horse is 99 3/5 degrees, of cow is 99 to 102 degrees. Every owner of stock should have a Fever Thermometer. These Thermometers are tested and registered. Price, \$2.00; postpaid, \$2.10.

Greenhouse Thermometers



5400S

No. 5400S—Best grade, 10 inches, black jappanned, heavy tin case. Spirit. Tube filled with red permacolor (non-fading and easy reading) black oxidized brass scale with white filled figures and graduations. Price, \$2.00; postpaid, \$2.10.



5420S

No. 5420S—Selected grade, 10 inches, black jappanned tin case. Spirit. Same as 5400S, but selected grade instead of best grade. Price, \$1.75; postpaid, \$1.85.

Soil (Hot Bed) Thermometers

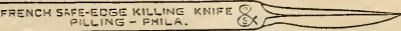


No. 5981—It has a strong, pointed, metal end-piece; the glass tube and V-shape metal scales are sunk in the wood back; length, including shaped handle, is 15 inches. Price, \$3.00; postpaid, \$3.10.

Thermometers and all glassware are packed in the most careful manner, but owing to the great liability of breakage we will not guarantee their safe delivery nor be responsible in

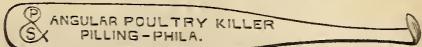
case of breakage. To avoid loss the best plan is to have them insured, and if you so desire, include insurance with your remittance.

Safe Edge Killing Knife



Exactly same as French Killer except cut on one side only. Price, 60c; postpaid, 65c.

Pilling Angular Killing Knife



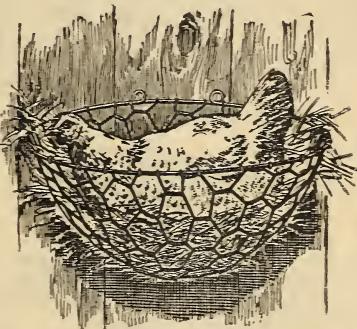
By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Price, 60c; postpaid, 65c.

New Philadelphia Capon Set



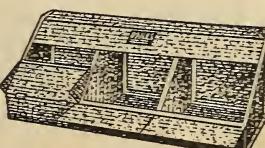
This set has many admirers. It consists of a knife for making the incision; the spreader for holding sides open; sharp hook for piercing skin; the Lansdowne Remover for removing the testicles. Cords with hooks for holding the bird. Cup forceps for removing any foreign matter. They are fine instruments of the best workmanship. Price, \$2.75; postpaid, \$2.85.

Hens Nests



These nests are strongly made from heavy jappanned steel wire. They are intended to be fastened to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes.

Size, 14 inches in diameter, 1 1/4-inch mesh. Each, 25c; 1/2 doz., \$1.35; doz., \$2.50. Weight 3/4 lb. each. Add postage.



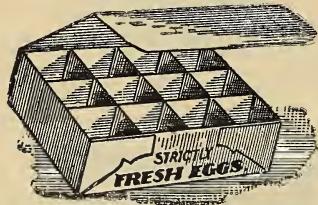
These galvanized steel nests are made in three compartment size only. Lid lets down to

form a perch. Sloping top prevents roosting on nest. Nests set on brackets or hang on wall. Convenient, sanitary and vermin-proof. Each compartment is 11 inches wide, 13 inches from front to back, and 12 inches high at the rear. Price, \$3.75; weight 30 lbs. Add postage.

Nest Eggs

Porcelain—Price, 5c each; $\frac{1}{2}$ doz., 20c; doz., 35c; mailing weight 2 lbs. per dozen; add postage.

EGG BOXES



Paper—Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box.

Doz., 30c, postpaid; at purchaser's expense; package of 125, \$1.50; 250, \$2.75; 500, \$5.00; 1,000, \$9.50. Weight of 125, 15 lbs. Add postage.

Hatching Egg Boxes

These boxes are specially designed to withstand the rough usage and to afford complete protection to the eggs. Compare the weight of these boxes with others that are quoted at a lower figure, and you will be enabled to judge of their respective qualities.

	Each	$\frac{1}{2}$ Doz.	Doz.	Wt. Doz.
15 eggs		\$0.35	\$1.90	\$3.50
30 eggs		.60	3.00	5.50
50 eggs		.75	3.90	7.20

Add postage.

Parcel Post Boxes

1 doz.	.30	1.50	2.75	20 lbs.
		Add postage.		

Price on all boxes subject to change.

Egg Cases

Each, knockdown, 35c; $\frac{1}{2}$ doz., \$2.00; doz., \$3.50. Weight, each 7 lbs. Add postage.

Egg Case with fillers. Each, 70c. Weight, 12 lbs.; add postage.

Egg Case Fillers

Pasteboard fillers for 30-dozen case, 35c. Weight, 6 lbs. Add postage.

Pasteboard fillers, per case (for 12 30-dozen cases), \$3.25.

Weight of case, 55 lbs. Add postage.

Egg Preservative

Egg-o-latum is a white cerate. Rubbed over the shell of the egg it seals every pore so no air, moisture, odors, or germs can get in. Preserves the egg in all its original freshness. The application of Egg-o-latum is easily and quickly done. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertilized ones are best. One package treats 50 doz. eggs. Price 55c, postpaid.

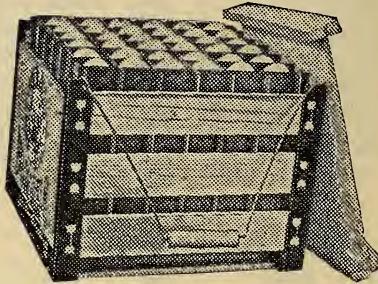
Better Meat

Cure your meat with Old Hickory Smoked Salt. This salt is pure dairy salt and is given the hickory flavor by burning hickory sawdust. This is what may be termed country cured. We can also furnish it with hickory flavor and sugar cured flavor combined.

10-lb. package, \$1.25; add postage.

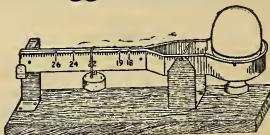


The "Steelbound" Egg Carrier



Frame is made of the best quality of sheet steel. Wood is fastened to steel by a patented indestructible carrier. Cover rests on steel process, making a light, rigid and practical frame and can not be pressed down on contents of crate. Handles are made of steel spring wire and are fastened securely to steel frame so that they cannot work loose or come off. Capacity, 12 dozen; weight, 7 lbs. Price, 90c; add postage.

Egg Scales



It makes no difference how you place the egg on the Champion Egg Scale because the egg cup is balanced on axis and is always held to "perfect center" by the balance weight under the cup. Simple in construction and easy to operate.

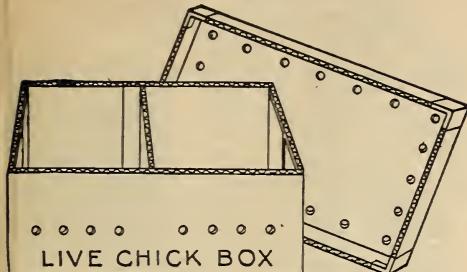
Grade Eggs in following grades: 19, 22, 24, 26 ounces to the dozen. Made of solid brass—will not get out of order—no loose parts to get lost.

Price, \$2.00 each; postpaid, \$2.10.



This Automatic Egg Scale makes egg-grading easy. It is made of metal throughout and is entirely automatic. Can be set to grade 18, 20, 22, 23, 24 or 26 ounces to the dozen. No springs. Nothing to get out of order. No weights to get lost. Length 12 $\frac{1}{2}$ inches. Price, 75c; postpaid, 85c.

Live Chick Boxes



These shipping boxes are well made of high-test corrugated paper, which is very strong and durable. The construction of these boxes is such as to afford the greatest strength and stiffness, without unnecessary bulk of weight.

Capacity	Size	Each	1/2 Doz.	Doz.	Wt. doz.
25	9x11x5 $\frac{1}{2}$	25c	\$1.10	1.90	14 lbs.
50	18x11x5 $\frac{1}{2}$	30c	1.50	2.50	18 lbs.
100	27x22x5 $\frac{1}{2}$	45c	2.25	4.00	32 lbs.

Add postage. Prices subject to change.

Shipping Coops

INLAND — All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

	Each	1/2 doz.	Doz.	Weight each
No. 1—10x20x20	\$0.50	\$2.75	\$5.00	6 lbs.
No. 2—12x24x20	.65	3.25	6.00	10 lbs.
No. 3—20x24x20	.80	4.00	7.50	13 lbs.

Add postage.

“United” Steel Feeding Battery

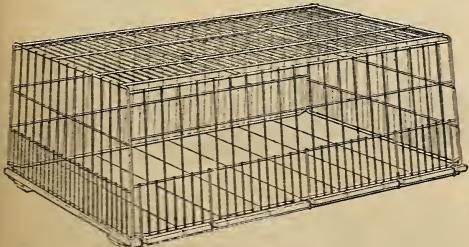
An eight-compartment, all steel battery good for 400 to 450 lbs., or 80 hens. Size 27x54x76 $\frac{1}{2}$ inches high. All four sections 15 inches high. Equipped with 4 $\frac{1}{2}$ -inch seamless galvanized troughs. Doors slide up, which is a most convenient feature. Two heavy galvanized trays underneath each section for droppings to collect in. Heavy angle iron truck equipped with 6 $\frac{1}{2}$ -inch truck wheel and 3-inch casters.

All wire joints in battery are electrically welded, making no crevices for mites or lice to collect in. Shipped knocked down. Weight 264 lbs.

Where large quantities of poultry are handled, the 16-compartment battery is the best size. It has a capacity of about 112 grown birds. Height 77 $\frac{1}{2}$ inches, length 62 $\frac{1}{2}$ inches, width 37 inches. Weight, complete with troughs, 392 pounds.

Send for descriptive circular and price.

Clover Leaf Steel Shipping Coop



This steel coop will outlast three wood crates and will save its cost each season in repairs and transportation charges.

It is made of galvanized steel bars and wire, and will not rust.

It has a narrow mesh on top, which eliminates the possibility of the poultry poking their heads through and being killed.

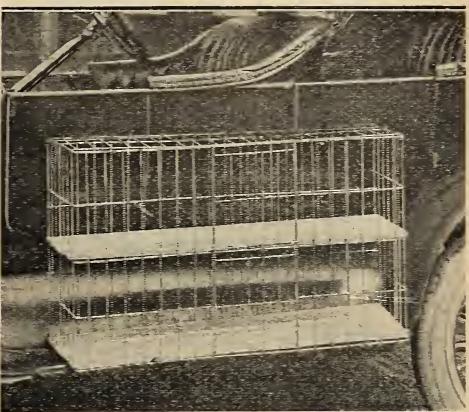
Self locking. Side door on top.

Weighs but 24 pounds, and never gets heavier.

Size 27x41x14 inches high. Price \$4.75.

Size 27x41x20 inches high. Price \$5.75.

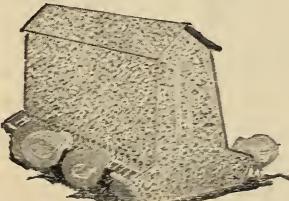
Automobile Coop



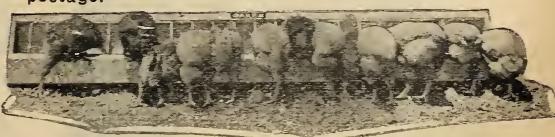
For conveying poultry to market this coop has no equal. It replaces the unsightly, unsanitary makeshift coop, and will last many years. It is light, easily attached to the automobile, and projects but an inch or two beyond the edge of the running board.

This automobile coop is made by the same firm as our Clover Leaf Steel Shipping Coop, and is of the same strong, substantial make. Price, \$4.50.

CHICK FEEDERS

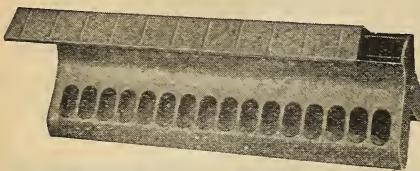


No. 800—A marvelous saver of time and labor for feeding large flocks of chicks. Top is hinged for easy filling. Wires extend into hopper so that chicks shake down the mash while feeding. This feeder will give excellent satisfaction and will last for years. 30 inches long, 12 inches high. Width, at bottom, 11 inches. Holds 58 lbs. dry mash. Price, \$4.90. Weight 16 lbs. Add postage.



No. 6A—This is an ideal feeder for growing chicks as soon as they are past the brooding stage. It is four feet in length and holds twelve quarts of dry mash. Made of heavy galvanized

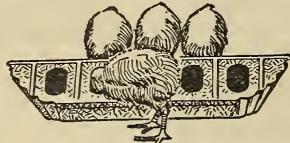
steel. The guard wires are two inches apart, which prevents chickens from getting into or wasting feed. Price, \$2.00. Weight 7 lbs. Add postage.



No. 36—This feeder is 21 inches in length. Sloping top prevents roosting and slides off for filling or cleaning. V-shaped bottom throws feed toward the outside and prevents clogging. Has 50 feeding spaces. Price \$1.40. Weight 5 lbs. Add postage.

No. 37—35 inches in length. Price \$2.00. Wt. 8 lbs. Add postage.

No. 37—48 inches in length. Price, \$2.50. Weight 11 lbs. Add postage.

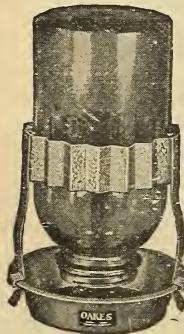


These troughs are ideal for feeding dry mash to baby chicks. Trough is stamped out of one piece of heavy galvanized steel, without seams. Very easy to keep clean. Over the trough is a gable-shaped grate which prevents chicks from getting into the trough or wasting feed. The grate is a separate piece and slides on and off easily. Very rigid construction. These troughs are made of galvanized steel.

No. 71—10 inch. Price, 25c. Weight 1 lb. Add postage.

No. 72—20 inch. Price, 40c. Weight 1½ lbs. Add postage.

CHICK FOUNTAINS



Buttermilk Feeders

No. 70B—Examine carefully this splendid buttermilk feeder for use with half-gallon Mason jars. It comes with aluminum pan but without jar. The pan is held close to mouth of jar in up-ending, to prevent spilling. It is then adjusted to feed at desired depth. Price, 40c; postpaid, 45c.

Drinking Fountains

No. 69A—Drinking pan of heavy charcoal tin can be used for buttermilk or sweet milk. Screws on to any Mason jar up to ½-gallon size. Pan is made 5¾ inches wide to support jar without tipping. Price, 2 for 25c; ½ doz., 70c; 1 doz., \$1.25. Weight, doz., 2 lbs. Add postage.



POULTRY FEEDERS

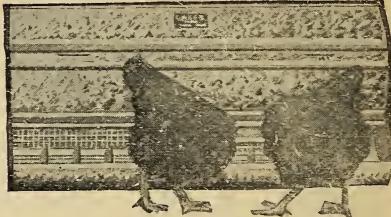
Inland Grit and Shell Box

The Inland Sanitary Grit and Shell Boxes work a material saving in grit, shell, bone, charcoal or poultry feeds. They are thoroughly practical, self-feeding, made of heavy galvanized iron. They are provided with a cover or lid, which protects the contents, and being placed at an angle furnishes a slanting top, preventing the fowls from roosting on the top of the box. Length of 3 compartments 12 inches. Price, \$1.25; weight 4 lbs. Add postage.

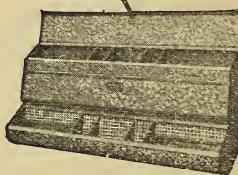
4 compartments 16½ inches in length. Price, \$1.40. Weight 5 lbs. Add postage.



Inland Dry Mash Hopper



No. 14



No. 15

A splendid hopper made of galvanized steel—spot welded. Hinged lids over both hopper and trough, to keep out rats and litter. Swinging feed grate permits use of any kind of dry mash. Hopper 15 inches high, 4½ inches wide, and comes in three lengths. Trough has no cross wires to injure combs. 36-inch has five compartments.

No. 12—12 inches long. Price, \$2.00. Weight 5 lbs. Add postage.

No. 14—24 inches long. Price, \$3.10. Weight 9 lbs. Add postage.

No. 15—36 inches long. Price, \$4.50. Weight 16 lbs. Add postage.



No. 4A—A dry-mash feeder for large flocks of hens or growing chicks. Made throughout of heavy galvanized steel. Much lighter and more sanitary than wood feeders. Sets on brackets against side of house. Wires 4 inches apart to prevent wasting feed. Length, 4 feet; capacity

1 bushel. Price, \$2.90. Weight 10 lbs. Add postage.

POULTRY FOUNTAINS

Inland Drop-Bottom Fountains

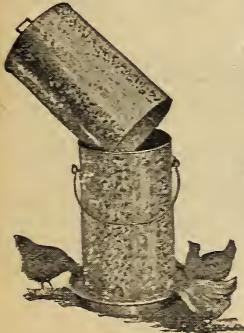


Combines the good qualities of both Flat-Back and Drop-Bottom fountains. Has large drinking pan. Pan is hinged at back and fastens with catch in front. Flat back permits hanging on wall if desired. Easy to fill and clean.

Size.	Wt.	Price.
No. 24—2 Gallons	4 lbs.	\$2.00
No. 25—4 Gallons	5 lbs.	2.50

Add postage.

Inland Capacity Fountains



No. 9—A splendid general purpose fountain that fills from the top and is very easy to clean. Conical top to prevent roosting. Heavy wire bail. Built of best quality galvanized steel. Drinking space entirely around fountain. Pan is soldered to outer can. Size, 5 gallons. Price, \$4.25. Weight 12 lbs. Add postage.



Cut shows how to clean and fill

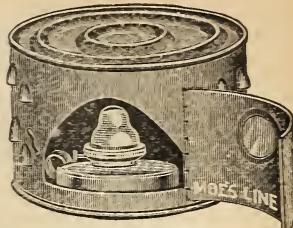
Thermo Fountains

Built like a thermos bottle with two-inch insulation. Keeps water cool in summer—and warm in winter. Fills from top as shown in cut to the left. Easy to wash or scald. Conical top prevents hens from roosting on fountain. Heavy wire bail for carrying. Made of heavy galvanized iron in two sizes:

No.	Size	Wt.	Each
17	3-gal.	30 lbs.	\$5.25
18	5-gal.	38 lbs.	6.25

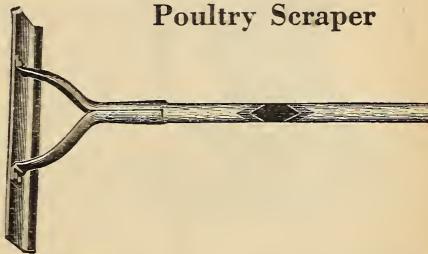
Add postage.

Fountain Heater



Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains and makes an ideal heater fountain at a low price. Price, \$2.00. Weight, 5 lbs. Add postage.

Poultry Scraper

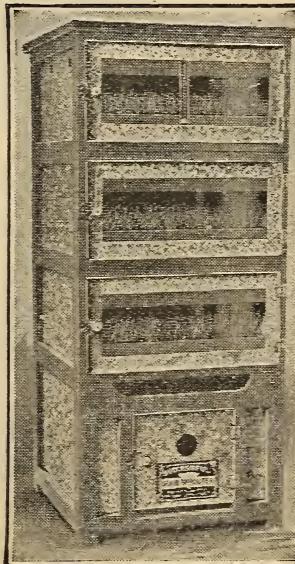


An excellent tool for scraping dropping boards, brooder floors, etc. Has curved blade of high-carbon steel. No. 200 has 15-inch blade and 4½-foot handle. No. 300 has 12-inch blade and 4-foot handle. Handles are made of ash and lacquered.

No. 200—Price, 75c.

No. 300—Price, \$1.25.

Grain and Oat Sprouters



Successful

As you will notice by the illustration the Successful Sprouter is built in sections, consisting

of the base, containing the lamp and the vapor pan. The size of the base is 20 inches square by 15 inches high. Each section contains two trays. The size of the section is 20 inches square and 10 $\frac{1}{4}$ inches high. Each tray measures 17 inches square.

Has hinged top so you can sprinkle the grain from above in one operation. Capacity, from 40 to 50 quarts dry grain, and is recommended for flocks of from 400 to 600 hens. The sprouter here shown in cut has three sections or 6 trays.

Quote 5 sections, 10 trays. Price, \$32.50.

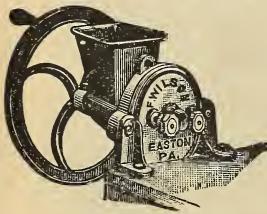
Quote 2 sections, 4 trays. Price, \$21.00.

Black Hawk Mill



WITH A BLACK HAWK MILL in the house you crack the corn and grind any kind of grain to whatever degree of fineness you desire or whichever will best suit the use or condition of your chickens. Its wide range of usefulness, its durability and small cost will appeal to the family in town with a small flock in the back yard, and it has a large enough capacity to meet the needs of those in the country who keep poultry on a big scale. Weight, 22 lbs. Price, \$3.50. Add postage.

The Wilson Dry Bone Mill



This is a practical mill, grinding all kinds of shells, crockery, grit, burnt or dry bone feed, etc. Instantly adjusted to grind coarse or fine. Weighs 33 pounds. Diameter of hand wheel, 20 inches. Price, \$7.50. Add postage.

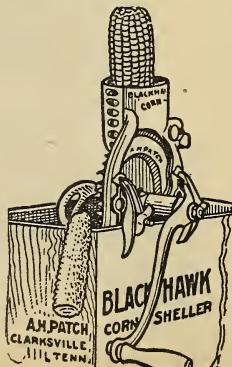
BLACK HAWK

CORN

SHELLER

A Sheller That
Shells

It can be set to shell any corn that grows. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumbscrews—no bolts nor screws required—no holes to be bored. Weight, 14 lbs. Price, \$3.50. Add postage.



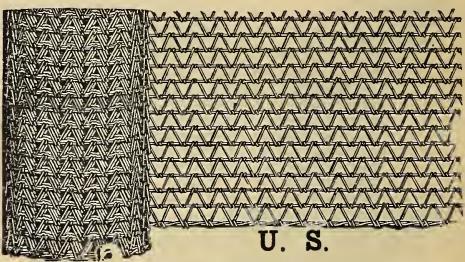
Banner Root Cutters



No. 7

These excellent machines are so low in price that every farmer, stock raiser or poultry man should have one, as roots are the cheapest green feed for stock and poultry.

The Banner is substantially made of first-class material. Weight, 50 lbs. Extra Knives, 35c each. Price, \$9.50.



Prices per roll of 150 feet:

	One Inch	Two Inch	
12 inches	\$3.00	12 inches	\$1.50
18 inches	4.25	24 inches	2.35
24 inches	5.45	36 inches	3.20
36 inches	7.40	48 inches	4.30
Less than roll, 3c		60 inches	5.35
square foot.		72 inches	6.40

Less than 50 feet, Less than roll, 2c
3 $\frac{1}{2}$ c square foot. square foot.

Prices subject to change.

**High Grade Seeds
Best Quality Goods
Prompt, Efficient Service**

Bargain Offer!

GENUINE WEATHERPROOF UNBREAKABLE FLEX-O-GLASS

Pat.
Pea.T.M.
Reg.

Extra eggs or chicks saved
pay for this Flex-O-Glass
Scratch Shed in a few days.



Ideal for enclosing
porches, henhouses,
covering screen doors, etc.



Flex-O-Glass hotbeds
grow plants quicker
and much stronger.

NOW
ONLY
29¢
inches wide
per yard

For 10 yards or more
(formerly 60¢ a yard)
Satisfaction guaranteed or
your money back



Easily nailed on barn,
chicken coop, hog house
and garage windows.

Now you can buy genuine weather-proof, unbreakable FLEX-O-GLASS at practically half its regular cost—and 1-10 the cost of glass. Just think—the best, strongest, most durable glass substitute at only 29¢ a square yard.

BIG SAVING The for-
price was 50¢ a yd. This amazing price cut
is made to add 100,000 new customers and to induce every farmer, poultry
and hen raiser to try at our risk this
wonderful material that admits the
sun's vital Ultra-Violet Rays (which
glass can't do). The big volume and
manufacturing efficiency make this
low price possible.

PRICES

10 sq. yds. \$2.95
20 sq. ft. or 90 sq. in. 2.90
20 sq. yds. 5.80
30 sq. ft. or 180 sq. in. 3.80
30 sq. yds. 8.70
50 sq. ft. or 270 sq. in. 5.70
50 sq. yds. 14.50
3x150 ft. or 450 sq. in. 14.50

Less than 10 yards, 30¢ per yard.

Lets in Healthful Ultra-Violet Rays

Gives hens June sunshine full of Ultra-Violet Rays indoors, which makes them lay all winter while eggs are high. Fifteen yards covers scratch shed or poultry-house front for 100 hens. Start them laying now.

On porches FLEX-O-GLASS makes an extra, warm, sunlit work-room, or children's healthful play-room cheaply. Keeps heat in, cold, snow and rain out and admits better light than glass. Just cut with sharp scissars. Will not wear or scratch. Approved by all leading authorities. Also recommended by users the world over. Lasts for years. Gives weatherproof protection.

Poultry Feeds

There are three great essentials to success in the poultry business. Stock, Care, Feed. The success of the poultry man will depend upon the care and attention given to these three points. We are not supplying stock, and can not give care, but we can and are supplying feed.

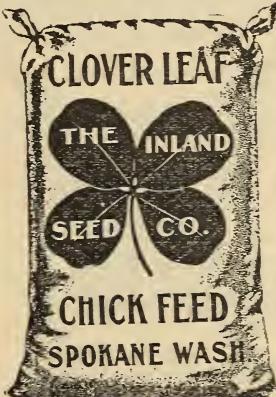
Prices on all poultry feed subject to change.
Full value sent for remittance received.

Clover Leaf Egg a Day

Experience has shown that better results can be obtained by feeding poultry well-balanced feed, and feeding a greater proportion in mash form either in a dry state or slightly moistened. It therefore becomes necessary to feed a well balanced mash high in protein. Clover Leaf Egg A Day is compiled on an approved formula and is without doubt one of the best mashes on the market. Analysis, Protein, 20%; Fat, 5½%; Moisture, 12%; Fiber, 7½%. Price, 80-lb. bag, \$2.50.



The sharpest and hardest grit known. Free from dust. Rich in iron, silica, aluminum and mica. Each crystal has sharp edges, which cut and grind, and grind and cut until the last minute particle is worn away. In ordering state whether you want chick or medium size. 100 lbs., \$1.25.

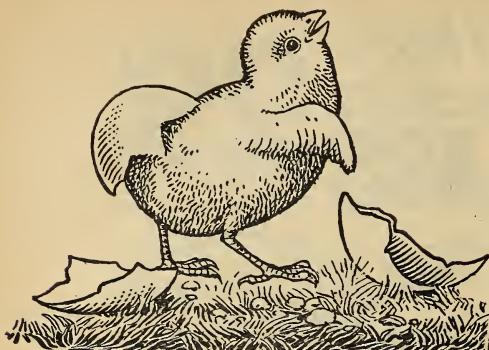


CLOVER LEAF FORCING FEED, as its name implies, is specially intended for properly maturing young chicks after they are ready to be weaned from chick feed. When the chicks are from six to eight weeks old they are able to eat larger particles of grain than are found in our chick feed.

Our Forcing Feed contains a variety of grain in sizes and quantities exactly suited to the purposes for which it is intended. 50 lbs., \$1.75; 100 lbs., \$3.25.

Ryde's Startrite Chick Feed

Ryde's "Startrite" Chick Food is an absolutely safe and complete food on which to start baby chicks. Composed only of the choicest ingredient; sound, sweet grains, containing both animal and vegetable proteins in the correct proportions. It promotes rapid and thrifty growth. It contains a liberal quantity of buttermilk; the



lactic acid being very beneficial to baby chicks, and is the one complete food on which you take no chances.

Nothing is too good for Baby Chicks at the start. They eat so little that for the difference of a few cents it pays to buy the best. 5-lb., 40c; 10 lbs., 75c; 25 lbs., \$1.65; 50 lbs., \$3.00; 100 lbs., \$5.25. Add postage.

Have-to-Grow

Ryde's Have-to-Grow is all that its name implies and is made up of the same high grade materials as their Startrite and executed with the same painstaking care and is specially prepared with buttermilk, to be fed to chicks after they have attained an age of from six to eight weeks.

Have-to-Grow mash contains the best growing elements together with all of the necessary minerals for bone development, hence will insure the most rapid growth. Protein, 16%; fat, 4%; fiber, less than 5%. 25-lb. bag, \$1.50; 100 lbs., \$5.25.

This is composed of choicest grains in just the correct proportions that several years of experience has demonstrated is right. Every practical poultryman will readily concede the great advantage of feeding such a mixture. Price, per 100 lbs., \$2.75.



Alfalfa Meal

The value of some green food for fowls can hardly be overestimated. For a winter feed alfalfa is one of the best for this purpose. It contains more protein, lime and mineral salts in soluble and digestive form than clover, and fowls relish it in either a green or dry state. For producing eggs it has no equal. 100 lbs., \$1.75.

Alfalfa Leaves and Blossoms

It is well understood that alfalfa meal is ground alfalfa hay, while the leaves and blossoms are secured as these fall from the handling of the alfalfa, consequently they contain much less fiber and are a much richer food. 50-lb. bag., \$3.25.

Blood—Dried

One great reason why hens do not lay in winter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood. Blood is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use only tablespoonful to six hens once a day. 100 lbs., Armour's, \$5.25.

Bone, Granulated

Many poultrymen prefer granulated bone to fresh or green bone. Fresh bone contains 53 per cent of moisture and 12 per cent of grease, so that when a poultryman buys fresh bones he pays for 65 pounds of useless materials in every 100 pounds he buys. Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. 100 lbs., \$3.50.

Bone Meal

This is the same as granulated bone, but ground finer, so that it can be fed in a mash or to young chicks. 100 lbs., \$3.50.

Charcoal, Granulated

It aids digestion, purifies the blood, regulates the bowels and promotes the general good health of the chicks and adult fowls. Fine granulated, for all mash rations and for small chicks and a coarser granulated for adult fowls. Price, 50-lb. bag, \$2.25; 100 lbs., \$4.25.

Fish Meal

The analysis of the Fish Meal is 50 per cent to 55 per cent protein and 20 per cent bone phosphates and is guaranteed not to taint the eggs of chickens or the milk and butter of cows.

While Fish Meal is highly recommended for poultry, the great difficulty has been that it tainted the eggs. Ordinary fish meal should not be fed to poultry, but is suitable only as a fertilizer. Please note the guarantee given with this fish meal. Price, \$5.50.

The object in buying Meat Scraps or Meat Meal is to obtain the largest amount of digestible protein possible. Meat Scraps contain from 50 to 65% of protein. Spokane made. \$4.50;



MEAT MEAL—50 per cent protein. Price, Spokane product, \$4.75.
Prices on all poultry feeds subject to change.
Full value sent for remittance received.

Shell

The feeding of shells to poultry prevents soft shelled eggs, makes the shells strong, and eggs larger and heavier.

Eastern Oyster Shell, per bag, \$1.50.
Western Shell, \$1.25.

Peat Moss



Peat Moss, by keeping the floors and quarters dry, prevents the spread of the most harmful baby-chick diseases. Peat Moss is more economical than any other form of litter, both in actual cost of material and in saving labor of cleaning and renewing litter. Moisture and damp houses are enemies of the poultrymen. A clean, dry poultry house is ideal.

Peat Moss is a powerful absorbent and readily takes 14 to 15 times its own weight in water. Peat Moss should be spread evenly on the floor from an inch deep for chicks to three or four inches deep for full-grown birds. Bale weighs about 150 lbs. Price per bale, \$5.00.

Poultry Tonics



Conkey's Poultry Tonic fills the egg basket in spite of weather. It is not a food, but a tonic to be mixed with the regular feed during seasons when fowls get sluggish and want to loaf instead of lay. Pkgs., 30c, 60c, \$1.20; 12-lb. pail, \$2.25; 25-lb. pail, \$3.75. Mailing weights, 2, 4, 8, 17 and 30 lbs. Add postage.

Cod Liver Oil and Yeast



Successful poultry raisers are finding these two ingredients indispensable in poultry rations. By supplying needed vitamins, cod liver oil and yeast banish leg weakness and other chick troubles, promote rapid and vigorous growth and keep hens in the pink of condition, able to produce a heavy lay.

Conkey's Y-O, which is a combination of yeast and cod liver oil made by a special patented process, solves the problem in an economical way. The product comes in the form of a dry chocolate-brown powder, which is free running and readily mixed with any poultry mash.

Price, 1-lb. pkg., 60c; 2-lb. pkg., \$1.10; 5 lbs., \$2.25; 25 lbs., \$9.00. Mailing weight 2, 3, 6 and 30 lbs. Add postage.

Cod Liver Oil

Recent studies in the science of nutrition show that certain Vitamins are necessary for proper growth, body maintenance, and reproduction. If animals and birds do not have enough Vitamins of the right kind, they become unthrifty and show signs of indigestion, loss of appetite and nervous disorders. Of the known Vitamins, the following are important in poultry feeding:

Vitamin "A" is a growth producing Vitamin and is also essential for the maintenance of disease resistance. Poultry cannot live without this Vitamin.

Vitamin "B" is also necessary for proper growth. A lack of it promptly prevents growth, impairs the appetite, affects the organs of digestion and reproduction, and causes malnutrition, particularly of the nervous system.

Vitamin "D" is the one which prevents or cures leg-weakness or "rickets" in young chicks confined indoors.

GRADES OF COD LIVER OIL

There are many grades of Cod Liver Oil on the market. These are refined or non-freezing medicinal Cod Liver Oil, crude Cod Liver Oil and red Cod Liver Oil. The best grade to use is the Refined or Medicinal oil. It is pale yellow in color, is clear and free from sediment.

KEEPING QUALITIES

If kept from the action of air, light, and moisture, good refined oil will keep for an indefinite length of time, retaining its Vitamin potency. Upon exposure to the air, it rapidly deteriorates and loses its Vitamin strength through oxidation. If it is mixed in a feed and allowed to stand for any length of time its value will largely disappear. **THE ONLY WAY TO GET ALL OF THE VALUE OUT OF COD LIVER OIL IS TO FEED IT FRESH.**

Price per gallon, \$2.00. Put up in glass gallon jugs. Not mailable.

Poultry Pepper Compound

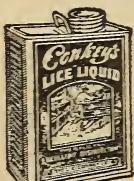
This is a splendid tonic at all times. A small amount sprinkled in with a hot mash will stimulate the circulation and increase egg production. Lb., 30c; 5 lbs., \$1.35; 10 lbs., \$2.60; 25-lb. pail, \$6.00; add postage.

LICE KILLERS AND DISINFECTANTS

Conkey's

HEAD LICE OINTMENT is for overcoming and preventing the murderous head louse which "eats up" baby chicks. Packages, 15c, 30c; 20c and 35c, postpaid.

LICE FIX is a preparation in ointment form for fighting body lice. One application lasts a month. Packages, 30c, 60c; 35c and 65c postpaid.



LICE LIQUID is for painting roosts, fittings, the inside of house, nest boxes and wherever mites congregate. Cans—qt., 60c; 2 qt., 90c; gal., \$1.50. Not mailable. Express or freight extra.

LICE POWDER is for dusting hens, nests, growing chicks and for use wherever body lice must be overcome. Conkey's is the improved kind and contains Sodium Fluoride. Sodium Fluoride is highly recommended by experiment stations for the eradication of lice. Packages, 45c, 90c. Mailing weight, 2 lbs. and 4 lbs. Add postage.

Conkey's Poultry Remedies



HAVE A CONKEY CORNER IN YOUR POULTRY HOUSE

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of BEING PREPARED. Install a Conkey Corner of remedies in your poultry house as insurance against disease, trouble, loss and disappointment.

We sell Conkey's Poultry and Stock Remedies because we know they are reliable and we can guarantee them as follows:

Your money refunded cheerfully if any Conkey remedy does not satisfy. CONKEY'S POULTRY BOOK FREE if you call at our store, or mailed for 5 cents in stamps.

BLACKHEAD REMEDY—Turkey breeders should have a package ready for instant use, for Blackhead is very hard to cure in advanced stage. When used soon enough, Conkey's Blackhead Remedy is ordinarily effective. Package, 60c; postpaid, 65c.

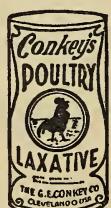
CANKER AND BRONCHITIS REMEDY checks cancerous growths and sores and soon restores the bird to normal. This remedy is Conkey's specific for bronchitis. Also desirable in treating individual cases of Roup and for use at shows when birds develop colds. Package, 60c; postpaid, 65c.

CHOLERA REMEDY—So-called cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water. Package, 30c, 60c; postpaid, 35c and 65c.

GAPE REMEDY—Gape worms accumulate in the windpipe and choke the chick to death. Conkey's Gape Remedy comprises two powders—both in the same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers and retain its vitality. 30c, 60c; postpaid, 35c, 65c.

LAXATIVE—Wherever a laxative or purgative is needed this remedy is just the thing for birds—by varying the dosage you can produce either a mild or strong effect. Packages, 30c, 60c; postpaid, 35c and 65c.

LIMBERNECK REMEDY—For ptomaine poisoning. Packages, 60c; postpaid, 65c.



HAVE A CONKEY CORNER IN YOUR POULTRY HOUSE



ROUP PILLS—Packages, 30c, 60c; postpaid, 35c and 65c.

SCALY LEG REMEDY applied to birds' legs will in a few treatments kill the parasites responsible for the trouble and heal up the legs with a healthy lustre. Package, 30c; postpaid, 35c.

SORE HEAD (Chicken-Pox) REMEDY—Little brown spots appear on comb, face and wattles. Under these is a pocket of virulent pus. Apply Conkey's Sore Head Remedy. Package, 30c and 60c; postpaid, 35c and 65c.

WHITE DIARRHEA REMEDY—As a preventive of bowel troubles, white diarrhea and other digestive complaints, it has given great satisfaction for many years. Once started diarrhetic conditions often sweep away the whole hatch. This remedy is also recommended as a preventive measure and for treatment of coccidiosis. Packages, 30c, 60c, \$1.20; postpaid, 35c, 65c, \$1.25.

WORM REMEDY rids birds of many troublesome worms, thus promoting a return to healthy conditions. Give it as soon as you suspect worms—it will help the whole flock. Packages, 30c, 60c; postpaid, 35c, 65c.





NOX-I-CIDE has a large variety of uses as a disinfectant and germicide. It is approved by poultry experts everywhere.

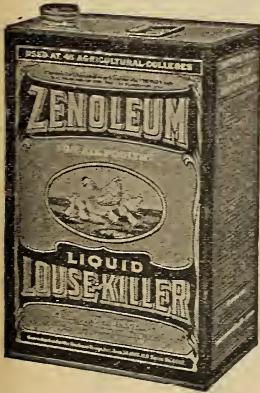
For spraying during the "weekly cleanup," as a preventive of disease and a help in keeping down red mites, ticks, blue bugs, etc., Conkey's Nox-i-cide is practically unexcelled.

Cans: Pint, 60c; quart, 90c; 1/2 gallon, \$1.50; gallon, \$2.25. Not mailable. Express or freight additional.

Bed Bug Destroyer

This is a liquid and is guaranteed by the manufacturers as follows: Purchase money refunded if Royal Bed Bug Destroyer fails in any case to give results. Apply with an ordinary hand sprayer. See page 81 for price of hand sprayers. Pints, 60c; quarts, \$1.00; half gallons, \$1.75; gallons, \$3.00; not mailable.

Zenoleum



One gallon of Zenoleum makes 100 gallons of positive disinfectant. Kills vermin, cures skin trouble. Invaluable as a remedy for diseases of poultry and all live stock. Kills lice and cures mange. Disinfects incubators. Pint, 50c; qt., 80c; 1/2 gal., \$1.30; gallon, \$2.00. Not mailable. Express or freight extra.

Buhach

1 1/2 oz. pkg., 30c; 3 oz. pkg., 50c; 6 oz. pkg., 75c; 12 oz. pkg., \$1.25. Add postage.

Tobacco Dust

For use in dust baths or nests. A cheap and effective exterminator of lice. Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.50; 100 lbs., \$8.00.

Revenge and Kurum

Put Revenge in the dustbox. Put Kurum in the drinking water. They are life savers. Repeated tests have PROVED THAT REVENGE IS THE BEST in thousands of poultry pens all over the U. S. A. Its reputation as an absolutely safe vermin destroyer convinces that it not only instantly kills, but keeps Poultry Free from both HEAD and BODY Lice—It sticks to the fowl—IT WON'T DUST OFF, so it not only does its work on Both Young and Adult Fowls but it continues to afford lasting protection from all species of health destroying parasites, and that without the slightest injury to the fowls. IT IS SAFE and SURE.

REVENGE PLACED in the dust box means Vermin Protection for All Fowls. Directions on each package.

1 1/2-lb. can., 65c; 3-lb. can., \$1.00. Mailing weight 2 and 4 lbs., add postage.

Bird Seed

MIXED—Per lb., 20c; 2 lbs., 35c.

CANARY—Per lb., 20c.

HEMP—Per lb., 15c; 2 lbs., 25c.

MAW—Per lb., 20c.

RAPE, SWEET—Per lb., 20c.

MILLET—Per lb., 15c; 2 lbs., 25c.

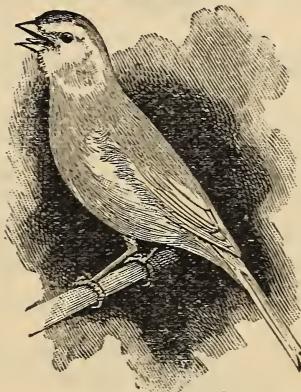
CUTTLE BONE—Two for 5c.

SUNFLOWER—Per lb., 15c.

All bird seed recleaned.

Add postage on all bird seeds.

BIRD SPECIALTIES



BATH DISHES—Made of porcelain, sanitary. Price, 20c; postpaid, 25c.

BIRD BITTERS—A remedy for nearly all the diseases of cage birds. 30c; postpaid, 35c.

BIRD MANNA—Keeps cage birds in constant song, improves their plumage and prevents disease. 15c; postpaid, 20c.

BIRD SAND—Pkg., 2 lbs., price 20c; add postage.

MITE-POWDER—To free the bird from mites, blow a little of the Mite Powder under the feathers of the bird in the evening by means of an insect powder gun. At night cover the cage with a piece of white canton flannel. Early next morning remove the flannel and carefully destroy all the mites, which have crawled into it during the night, by immersing it in hot water. Price, 30c; postpaid, 35c.

MOULTING PEPPER—When fed during moulting season it produces red-tinted feathers. Price, 30c; postpaid, 35c.

NESTS—Very convenient and suitable. Price 15c; postpaid, 20c.

NESTLING FOOD—Special preparation and very highly recommended. Price, 30c; postpaid, 35c.

NESTING HAIR—Much better than any substitute. Price, 20c; postpaid, 25c.

ORANGE COLOR FOOD—Deepens and intensifies the natural color of the plumage. Feed to young birds after they are eight weeks old. Old birds during the moulting period. Price, 30c; postpaid, 35c.

SONG RESTORER—A treat and tonic for canaries, linnets, and all seed-eating birds. 25c; postpaid, 30c.

Booklet on cage birds, free on request.

POWDER GUNS—25c, 35c; postpaid, 30c, 40c.

DOG BISCUITS

THEY FIGHT FOR SPRATT'S



PUPPY BISCUITS (The Standard Puppy Food)—A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old. Pkt., 50c; mailing weight 3 lbs. Add postage.

DOG BISCUITS—The analysis of these biscuits shows that they are, weight for weight, equal in nourishment to fresh raw beefsteak and superior to it as a food for dogs. The standard dog food; a staple and constant food for all breeds of dogs. Square biscuit: Pkt., 45c; 5 lbs., 80c; 10 lbs., \$1.55; 25 lbs., \$3.40; 50 lbs., \$6.60; 100 lbs., \$13.00.

Oval biscuit: Pkt., 50c; 25 lbs., \$3.75; 100 lbs., \$14.25.

Fibo biscuit oval: Pkt., 50c; 25 lbs., \$4.00; 100 lbs., \$15.50.

Charcoal biscuit oval: Pkt., 50c.

Kibbled biscuit: 10 lbs., \$1.65.

Cat biscuit: Pkt., 50c.

Mailing weight, pkgs., 3 lbs., mailing weight of bags, 1 lb. more than their priced weight; add postage.

Booklet, Spratt's Dog Culture, mailed on request.

DOG REMEDIES—CLAYTON'S



BLOOD PURIFYING AND COOLING PILLS—Especially useful in Eczema and all skin diseases. 60c.

CHOREA is an affection of the nervous system. Tablets, 60c.

COUGHS—Cough Remedy, liquid, for coughs and colds from whatever cause. 60c.

DIARRHOEA—Diarrhoea Remedy, tablets; very effective. 60c.

DISTEMPER—Distemperine tablets, for distemper. 60c.

FLEAS—Ceoline Dog Wash, for fleas and for a disinfectant. 40c.

Cream soap, for fleas and washing dogs. 35c. Killflea soap, for fleas. 35c.

INDIGESTION—Digestive tablets, for all forms of indigestion. 60c.

LAXATIVE—Laxative pills. Act directly on the liver and keep the bowels in good condition. 60c.

MANGE—Mange Remedy. Best remedy known for this disease. 60c.

Skin lotion, for all skin diseases. 60c.

WORMS—Vermifuge (soft capsules), also liquid. Can be given to small puppies, as well as dogs. 60c.

Worm pills. Composed of the best remedies known for the expulsion of worms. 60c.

RUNDOWN CONDITION—Condition pills, with pepsin. A very reliable remedy in all rundown conditions. Also very valuable in cases of distemper. Price, 60c.

CLAYTON'S DOG REMEDIES have long had a reputation for being very dependable, and they are generally considered as being the most desirable.

Add 5c to quotations if forwarded by mail. Booklet on care of dogs, free on request.

A complete line of dog collars, harness, muzzles and leads. Different sizes and prices.

Collars from 10 inches to 22 inches in length and prices from 60c to \$4.00.

Harness from 14 inches to 28 inches and prices from \$1.25 to \$4.75.

Leads 48 inches—chain leads, 40c; leather leads, 45c to \$1.20.

Muzzles—small and medium, \$1.10; large \$1.20.

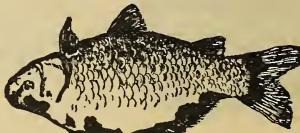
Add 5c to above prices for postage.

Rabbit Dishes

Earthenware rabbit dishes have incurved edges to prevent loss of food. Also most excellent for drinking pans.

6-inch size, 20c each; 1/2 doz., \$1.15; 1 doz., \$2.25. 8-inch size, 25c each; 1/2 doz., \$1.40; 1 doz., \$2.75.

FISH FOOD



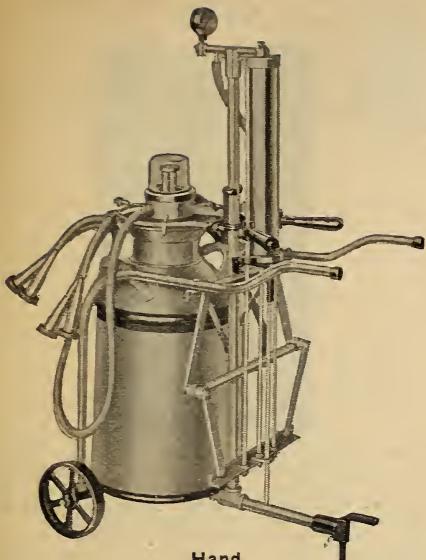
WAFER FISH FOOD—This, as its name implies, comes in wafer form and is a highly nutritious preparation which is eagerly eaten by gold fish and other fish. Price, 20c; postpaid, 25c.

Dairy Supplies

The Page Milker

Milking machines, like a great many other new inventions, were not perfect when first placed upon the market, but time and experience have now overcome the imperfections, and they are no longer an experiment, but are now being installed at a very rapid rate by all progressive dairymen.

It is an acknowledged fact that Milkers will milk a given number of cows in half the time, or less, that the same cows can be milked by hand, thus saving fifty per cent or more in labor. The greatest drawback to the ordinary farmer and small dairy has been the cost of milking machines that required installation by a system of pipes. This has been overcome, and we are now offering the Page Portable Milker at a much less price (because they do not need a pipe system of installation) with a guarantee to give entire satisfaction and to do as good work or better than any other milker on the market.

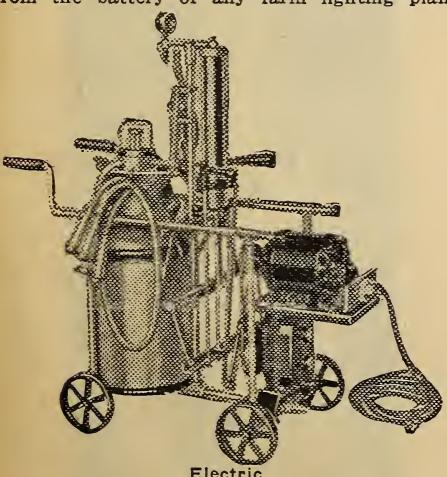
**Hand**

Here's the milker for the man with a few cows. Run by hand. So easy to pump a child can do it.

This hand operated model now brings machine milking within reach of every farmer. Just move it in and start milking—no installation. Does the work and does it right. Economical—hundreds of dollars saved over other more complicated milkers that do not one bit more work.

ELECTRIC

Here's the milker for the man who has electricity. Wheel behind the cows, turn on the electric switch and attach the teat cups for milking. The machine does the work, does it perfectly and with less bother and fuss than any other milker on the market. Requires only one-sixth horse-power—thus may be run from the battery of any farm lighting plant

**Electric**

without even starting the engine of the plant. Should the electricity fail you at any time, for any reason, you can disengage the power mechanism in a moment and operate the milker by hand.

The Page Milker is guaranteed to prove sat-

isfactory and to do all that the manufacturers claim for it. Your money back if it does not give satisfaction.

Write for descriptive matter on the particular milker you want.

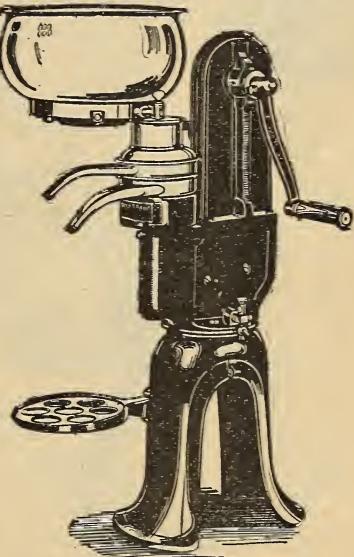
GAS

Here's the milker for the man who wants a power milker and has no electricity. A small compact unit requiring no installation and still does exactly the same work as the big elaborate power installations and does it better. Just move it from one set of cows to the other, start the engine and the milker does the work. Comet equipped with reliable three-quarter horse-powered engine which is fully guaranteed. Should gas engine fail you at any time, for any reason, you can disengage the power mechanism in a moment and operate the milker by hand.

Remember all these models are portable. Nothing to install. No fuss, no bother, nothing to build or fit into your barn. The Page comes to you complete and ready to use. Move it in, move it out, move it anywhere. Milks two cows at once or one cow separately.

Renfrew Cream Separator

The Renfrew bowl is open, sanitary and simple. It has few parts to wash. The boxed wings direct the flow of milk to the bottom-most discs, making the whole milk travel the greatest possible distance under pressure for the required length of time and ensures com-

**Renfrew Cream Separator**

plete separation. That's why it saves 99 99-100 per cent of the butter fat.

Some reasons why the Renfrew Cream Separator is the most economical and the best to use:

A skimming record of 99 99-100.

Bowls interchangeable.

simplicity of parts.

Smoothness of operation.

Self-oiling system.

Ease of cleaning.

No.	Capacity.	Price.
2	350	\$ 85.00
4	450	95.00
6	600	105.00

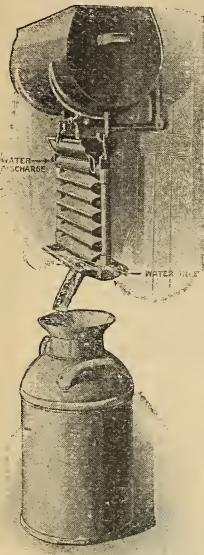
\$5.00 less than quotations when remittance accompanies order.

Guaranteed in every respect. If not entirely satisfactory money refunded.

Send for descriptive circular.

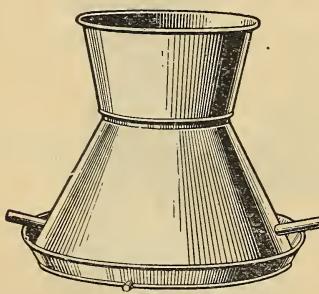
SEPARATOR OIL

Standard, gallons		\$1.25
Standard, half gallons		.75



Junior

No.	Width.	Height.	Hour.	Capacity per	Price.
A	15-in.	10-in.	20-gal.		\$32.10
B	15-in.	14-in.	40-gal.		36.60
C	15-in.	17-in.	60-gal.		41.75



Conical

The Conical is a rapid cooler, conical reducing the temperature of the milk in one minute nearly to the temperature of the cooling medium. Can be used with any cooling medium, either running water, ice water, or, if a very low temperature is not required, ordinary well or spring water. The top is removable so that ice may be put directly into the cooling drum.

It is automatic, requiring no attention while in use. Low down, simple in construction, and as easily cleaned as a common milk pail. Strong and durable, will last for years. Tin construction.

Cap'y of Milk
Cap'y of Water

Rec'r'v'r Gal.	Rec'r'v'r Gal.	Cap'y of Cows.	Price.	Wt.	2 Gallons St. John.....	\$3.50	7 lbs.	
No. 2	4½	12	15	\$10.00	25	3 Gallons St. John.....	4.00	8 lbs.
No. 3	5½	20	25	12.00	85	Add postage.		

CANS



MILK COOLER

JUNIOR — This cooler is of tin construction and is as strong and durable as it is possible to construct it.

OHIO—This can is made with a single neck and is fitted with the popular outside bottom loop. It has round handles and will be found a very satisfactory can, as it is strong, durable and will withstand very rough usage.

Price, with cover as shown in cut:

5 gallons	\$3.75	Weight, 11 lbs.
10 gallons	4.75	Weight, 17 lbs.

Add postage.

MILK CAN LINKS—Less than 100, 5c each; 100, \$4.00; 500, \$17.50; 1,000, \$30.00.

MILK CAN SEALS

Seal your cans; insure yourself against loss at a very small cost.

Lead, single wire, 100, 50c; 500, \$1.50; 1,000, \$2.50. Weight 6 lbs. per 1,000.

Seal press, each, \$2.75; weight, 2 lbs.; add postage.



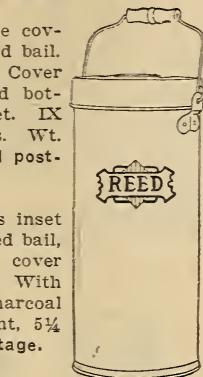
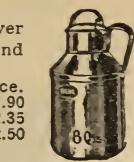
DELIVERY—Side handle, cover chained to can; well made and durable.

1 Gallon City Delivery....3 lbs. \$1.90
2 Gallon City Delivery....4 lbs. 2.35
3 Gallon City Delivery....4 lbs. 2.50
Add postage.

Cream Cans

Heavy, seamless outside cover. Heavy ears. Coppered bail. Natural finish bail wood. Cover without handle. Rounded bottom. No gauge or faucet. IX charcoal plate. 20 quarts. Wt. 3½ lbs. Price, \$1.50; add postage.

P17220—Heavy seamless inset cover, heavy ears, coppered bail, natural finish bail wood, cover with handle, flat bottom. With gauge and faucet. IXX charcoal plate. 20 quarts. Weight, 5¼ lbs. Price, \$3.00; add postage.



P8114—Hooded. One-piece top or hooded. Steel bail. Reinforced ears. All seams sanitary soldered inside and outside. IX charcoal plate. 14 quarts. Weight 4 lbs.

Price, \$2.15; add postage.

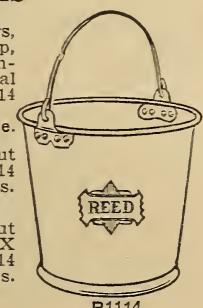


PAILS

P1114—Reinforced ears, extra heavy wire in top, coppered bail, natural finish bail wood, IX charcoal plate. Flaring pattern. 14 quarts. Weight, 3 lbs. Price, 90c; add postage.

P1214—Same as P1114 but IX charcoal plate. Weight, 3½ lbs. Price, \$1.15; add postage.

P3214—Same as P1114 but straight pattern and IXX heavy charcoal plate. 14 quarts. Weight, 3½ lbs. Price, \$1.15; add postage.



P1114

Peat Moss for poultry litter.

Cod Liver Oil for egg production.



P7214

P7214—Reinforced ears, heavy steel bail, sanitary soldered inside and outside. Straight pattern IXX heavy charcoal plate, 14 quarts. Weight, 3¾ lbs. Price, \$1.35; add postage.

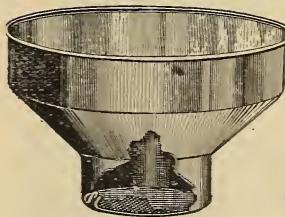
STRAINERS



Heavy, seamless. Body and foot drawn from one piece. Heavy wire around top. Reversible wire ring to hold cloth.

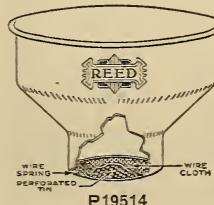
No.	Capacity	Price	Weight
P1934	4 quarts	\$1.25	1½ lbs.
P1936	6 quarts	1.40	1¾ lbs.
P19712	12 quarts	2.00	3 lbs.

Add postage.



Perforated
Tin, 50c.

P19412—Extra heavy seamless, heavy wire around top; sanitary soldered. Equipped with removable brass wire cloth, perforated tin disc and wire spring. 12 quarts. Price, \$2.00. Wt. 3 lbs. Add postage.

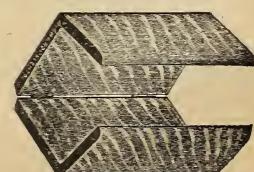


P19514

P19514—Same as P19412 but equipped with one flat and one convex perforated tin disc and wire spring. 14 quarts. Price, \$2.50. Weight, 3½ lbs. Add postage.

BUTTER MOLDS

All wood, brass hinges and screws. Price, 60c; weight, 1 lb.; add postage.





MILK AND CREAM SCALE

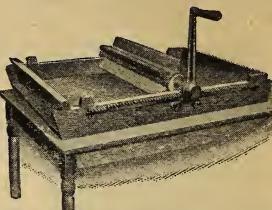
CHATILLON SPRING BALANCE

This scale is specially made for weighing milk in pails. The dial is divided into ounces. The indicator is adjustable, so that it can be set back to take out weight of pail. Each scale carefully tested.

30 pounds capacity.....\$7.00
60 pounds capacity.....8.50
120 pounds capacity.....11.50

Mailing weight, 4, 5 and 6 lbs.; add postage.

Wizard Butter Worker

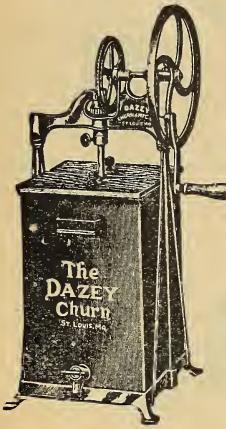


This style butter worker is a favorite with many. Butter is placed in the tray, salt added then worked by turning the crank, which causes the fluted roller to travel to and fro. The metal parts are all galvanized to prevent rust. Cut shows worker set on table, but prices below are for worker only without legs.

No. 3—Size, 17x27 in. and 3 in. deep inside; capacity, 20 lbs.; weight, 25 lbs. Price, \$15.00. Add postage.

TURBINE BOTTLE WASHERS

Dazey Churn



Metal



Glass

The dasher in conjunction with the square corners of the receptacle, produces a thorough and scientific agitation making it possible to churn in 6 to 15 minutes.

Perfectly sanitary, the receptacle being non-absorbent, and no cracks to harbor the cream and become rancid.

The receptacle and dash are very light and easily removed from the churn.

Durable because made of the very best steel and iron and with ordinary care will last for years.

Capacity

Holds	Churns	Material	Price	Weight
4 pints	2	Glass	\$2.00	8 lbs.
6 pints	4	Glass	2.50	10 lbs.
8 pints	6	Glass	3.25	12 lbs.
2 gallons	1	Metal	5.25	14 lbs.
3 gallons	1½	Metal	6.75	18 lbs.
4 gallons	2	Metal	8.25	20 lbs.

Add postage.

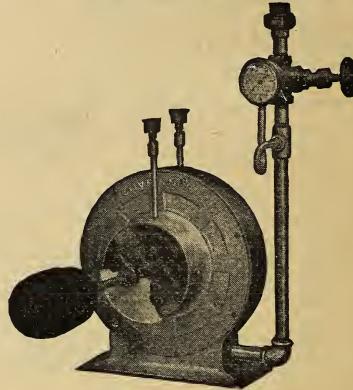
GLASS JARS FOR CHURNS

Size.	Price, Wght.
4 pints.....	\$0.75 8
6 pints.....	1.00 10
8 pints.....	1.30 12

Add postage.

All glassware packed carefully, but safe delivery not guaranteed.

TURBINE BOTTLE WASHERS



The 20th Century

This bottle washer is made with a new gearless turbine, the speed being controlled by the governor. When the speed of the turbine reaches a certain point the governor operates to prevent the speed exceeding the limits of safety. This governor is in a separate case to keep out the moisture, which would have a tendency to cause the bearings to rust and cause it to act too slowly. The cover to this case can be removed in a moment and the speed adjusted at any desired point.

Price, \$42.90.

BOTTLE CAPS



Bottle Caps—Stock print same as shown in cut. No lift.

1M.....	\$0.50	25M.....	\$11.25
5M.....	2.45	50M.....	20.00
10M.....	4.75		

Thousand weigh 2 lbs. 2 oz. Add postage. In 50M lots your imprint if desired without any additional cost. Imprint must be made at factory.

Same cap as above in tubes of 500, 60c per M. Weight per M, 5 lbs. Add postage.

Cream and Buttermilk Caps, 60c per thousand. Weight per M, 2 lbs. 2 oz. Add postage.

PERFECTION CAPS WITH LIFT

1M.....	\$0.60	25M.....	\$13.75
5M.....	2.95	50M.....	25.00
10M.....	5.75		

Weight per M, 2 lbs. 10 oz. Add postage. Your imprint if desired on 50M without charge.

MILK BOTTLES

There are various grades of milk bottles on the market and, unfortunately, there are still some people who consider a milk bottle a milk bottle. It is economy to use only the best.

Half Pints, doz., 75c; $\frac{1}{2}$ gross, \$3.25; gross, \$6.00.

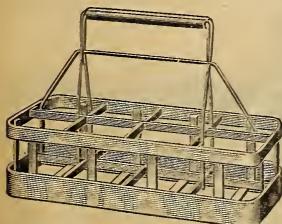
Pints, doz., \$1.00; $\frac{1}{2}$ gross, \$4.50; gross, \$8.50.

Quarts, doz., \$1.25; $\frac{1}{2}$ gross, \$6.00; gross, \$11.50.

SINGLE VALVE FILLER

The cut herewith is of a very simple and practical bottle filler, for filling bottles one at a time and suitable for dealers filling 50 to 300 bottles per day. It consists of a cylindrical can having a stiff, heavy bottom to which is attached a standard bottle-filling valve. The operation is easily understood from the cut. Bottles can be filled in delivery cases or when setting on table or bench. Fills all bottles to an even height, no topping or refilling. Valve can be taken apart for cleaning in less than five seconds. Price, tin can, no case furnished, \$19.25.

BOTTLE CARRIERS



lower partition so that they will hold pint bottles also. Eight quarts. Price, \$2.25. Weight, 5 lbs.; add postage.

It is easy to fill, easy to empty, easy to carry, and it is so strong that it will stand the daily wear and tear for several years. Electrically and permanently welded.

Capacity	Price	Weight
6 qts.....	\$1.50	3
8 qts.....	2.00	4

Add postage.

Galvanized, with improved handles.

6 bottles, pints, each.... \$1.00

Weight, 3 lbs. and 4 lbs each. Add postage.



DELIVERY CASES

Wood

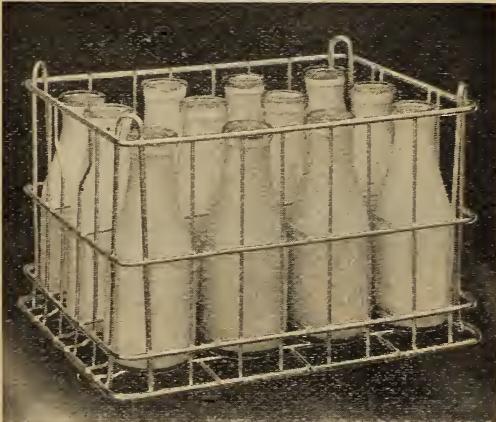


12-quart, \$1.75;
weight, 13 lbs.;
add postage.

20 - pint, \$1.75;
weight, 11 lbs.;
add postage.

20 half - pint,
\$2.00; weight, 13
lbs.; add postage.

Sanitary Tinned Wire Delivery Cases



This bottle crate is constructed of the best grade basic steel wire and is electrically welded at every intersection of the wires. This process is accomplished under intense heat and great pressure and forms a perfect union of the metal at each joint.

Here is one of the newest and best of the many bottle handling devices. Rigid, strong, and a space and weight saver over the wooden crate. Heavily tinned and rustproof. Stacks

securely and will not slide or tip when stacked. Grips and fits interchangeably with any standard wooden crate.

Size	Capacity	Price	Weight
Quarts	12	\$2.25	10
Pints	20	\$2.50	12
½ Pints	20	\$2.75	14

Add postage.

BRUSHES—Bottle Fillers



No. 828—For air tubes, white bristle, brush part $\frac{1}{2}$ -inch diameter, 3 inches long, length over all, 20 inches. Price, 25c.

Add 5c to all brushes if forwarded by mail.

BRUSHES—Bottles, Milk



No. 72—See description bowl brush No. 72. Price, 55c.



No. 73—See description bowl brush No. 73. Price, 60c.



No. 86—See description bowl brush No. 72, with exception of stiff bristle and better quality. Price, each, 70c.



No. 123—Stiff gray hair, brush part 3 inches diameter, tapered to $\frac{1}{2}$ inches diameter at handle end; $6\frac{1}{2}$ inches long; hickory handle, $\frac{3}{4}$ inch diameter, 5 inches long, tapered to $\frac{1}{2}$ inch diameter at end. Price, 60c.



No. 124—Same brush as No. 123, with the single exception of handle being 9 inches long. Price, 60c.



No. 61—Stiff bristle body and tufts, brush part $\frac{3}{4}$ inches wide, $2\frac{1}{4}$ inches thick, 7 inches long, hardwood handle, $\frac{1}{2}$ inch diameter, 10 inches long. Price, 45c.



No. 82—Extra stiff gray hair, brush part 3 inches diameter, $5\frac{1}{2}$ inches long, hickory handle, $\frac{5}{8}$ -inch diameter, 10 inches long. Price, 50c.

Bottles, Test



No. 835—For Babcock 10% milk bottles; white bristle; brush part $1\frac{1}{8}$ inches diameter, 3 inches long, length over all $11\frac{1}{2}$ inches. Price, 25c.



No. 833—For Babcock cream bottles; white bristle in body and tuft; brush part $1\frac{1}{8}$ inches diameter, $3\frac{1}{4}$ in. long, length over all 10 inches. Price 25c.



No. 50—Gray horse hair body, gray tampico tufts, brush part $3\frac{1}{4}$ inches wide, $2\frac{1}{4}$ inches thick. Price, 40c.

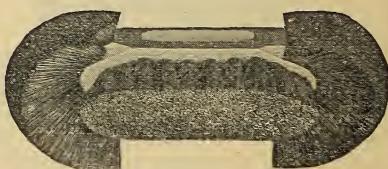
Bowl

No. 812—Small, black china bristle; brush part $\frac{3}{4}$ -inch diameter, 3 inches long; length over all $8\frac{1}{2}$ inches. See cut spout brush No. 812. Price, 25c.

No. 72—Black china bristle; brush part $2\frac{3}{4}$ inches diameter, 6 inches long; handle 9 inches. See cut milk bottle brush No. 72. Price, 60c.

No. 73—Black China Bristle; brush part $3\frac{1}{4}$ inches diameter, 6 inches long, hickory handle, $\frac{1}{2}$ -inch diameter; 9 inches long. See cut milk bottle brush No. 73. Price, 60c.

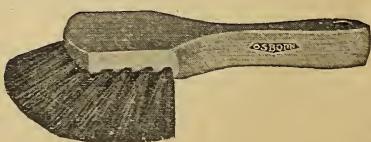
Can



No. 08—Stiff Palmetto Fibre; length on face, 10 inches; width on face, 5 inches. Price, 50c.



No. 412—Palmetto fibre, straight handle, brush part 5 inches diameter; 5 inches long; length over all, 29 inches. Price, 75c.



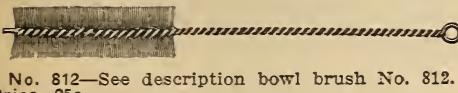
No. 416—Stiff Palmetto fibre, brush part 5 inches wide, 4 inches long; length over all, 10 inches. Price, 45c.

MILK COOLER



No. 286—Palmetto fibre, 2 rows wide, length of fibre 1 3/16 inches, curved handle, 14 1/2 inches long. Price, 35c.

Spout



No. 812—See description bowl brush No. 812. Price, 25c.



No. 815—Extra stiff black china bristle; brush part 5 inches by 2 inches diameter; length over all, 15 inches. Price, 30c.



No. 818—Black china bristle; brush part 1 1/4 inches diameter tapering to 3/4 inch, 5 inches long; length over all, 12 inches. Price, 25c.

Hose Cleaning



No. 830—Gray Russian bristle, brush part 4 1/2 inches by 3/8 inch. Length over all, 40 inches. Price, 35c.

1/2 Doz. Doz.

All 25c brushes.....	\$1.35	\$2.40
All 30c brushes.....	1.65	3.00
All 35c brushes.....	1.95	3.60
All 40c brushes.....	2.10	4.00
All 45c brushes.....	2.40	4.50
All 50c brushes.....	2.75	5.00
All 55c brushes.....	3.00	5.40
All 60c brushes.....	3.30	6.00
All 70c brushes.....	3.90	7.20
All 75c brushes.....	4.20	7.80

Add 5c to all brushes if forwarded by mail.

Average mailing weight per doz., 4 lbs. Add postage.

Stirrer and Sampler

Duro Sampler has saucer-shaped disc of steel firmly attached to wrought iron handle of sufficient length to reach bottom of 10-gallon can.

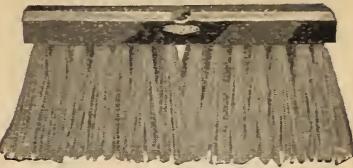
Duro Stirrer is the same as Duro sampler with the exception that there are five holes punched in bowl of stirrer to make stirring more effective.

Sampler and Stirrer, 65c each. Weight 2 lbs. Add postage.



Stirrer

Stable Brooms

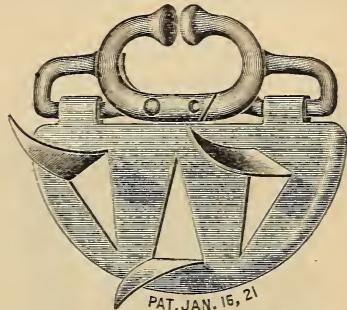


Bamboo 14x3 inches, 4 rows wide. Length of fibre 7 inches. Price, \$1.25. Weight, 5 lbs. Add postage.

Bass, 14x3 inches, 4 rows wide. Length of fibre, 5 1/4 inches. Price, \$1.50. Weight, 5 lbs. Add postage.

Handles not included in foregoing quotations. Price of handle, 25c. Weight 1 lb. Add postage.

Calf Weaner

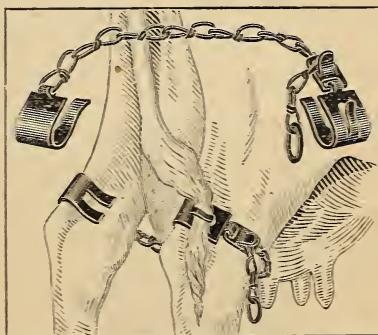


PAT. JAN. 15, 21

A perfect, humane and effective device. The hinge construction of this article allows the calf and cow to graze in the same pasture, yet effectually prevents sucking. It is easily applied. Once used always used.

Calf size, 75c; postpaid, 80c.
Cow size, \$1.00; postpaid, \$1.05.

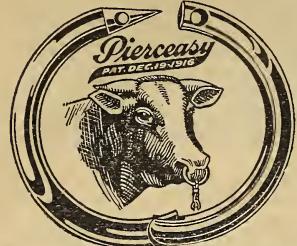
Anti Cow Kicker



So-Boss Cow Hobble and Tail Holder fits snugly over the tendons of cow's hind legs and is readily drawn into holding position by drawing chain through lock to any desired tension. Automatically locks itself in any position when free end of chain is dropped. Stops kicking, side-stepping and tail switching while cows are being milked. Equally useful whether cows are milked by hand or machine.

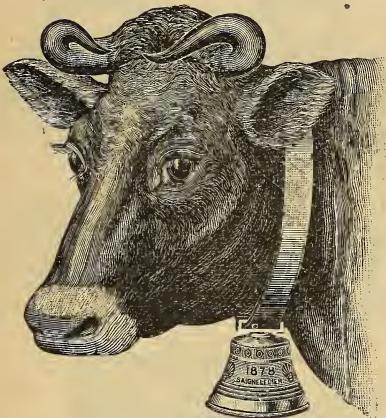
Chain is approximately 22 inches long and has ring attached to free end. Price, 60c. Weight, 2 lbs. Add postage.

BRONZE BULL RING



Is made of a special material of hardest and toughest texture, giving a very high and smooth finish. A quality product made to meet the demand of stockmen who require something superior to the ordinary ring. The sharp smooth point cuts a clean hole. Size $2\frac{1}{2} \times \frac{1}{8}$ inches. Price, \$1.75; postpaid, \$1.80. Large size, \$2.25; postpaid, \$2.30.

Bells



LONG DISTANCE COW BELLS—Made from one piece of metal, no riveting. Smooth, good tone.

Size	Price
No. 11— $3\frac{1}{2} \times 2\frac{1}{8} \times 3\frac{1}{8}$ in. high	35c
No. 13— $4 \times 3\frac{1}{8} \times 4$ in. high	45c

Swiss Cow Bells

No. 1—Bell diameter, 3 in.....65c

Sheep Bells

Cast malleable iron loop, copper plated. Substantial. Will not crack.
No. 9— $2\frac{1}{8} \times 2$ -inch.....30c
Add 10c to each bell for postage.

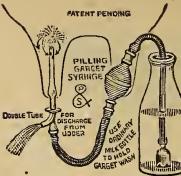
Cow Bell Straps

Length 3 feet, width $1\frac{1}{2}$ inch.....65c
Sheep Bell Straps.....35c

CATTLE INSTRUMENTS

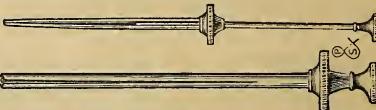


CATTLE TROCAR—Will promptly and safely relieve bloat. Every owner of cattle should have one on hand. Easy to use. Price, \$1.50; postpaid, \$1.60.



GARGET SYRINGE—Has a special make of rubber tubing, which allows the flow to be continuous instead of intermittent. It also has a double channel metal tube. One part of this tube is to inject the Garget Remedy into the udder and the other part allows the fluid, dead germs and other impure matters to escape from the udder.

Pilling Garget Syringe Outfit consists of Pilling Garget Syringe, Pilling Remedy (30 treatments), Pilling Animal Soap. Price, \$4.00; postpaid, \$4.10.



TEAT DILATOR—A finely made instrument, dilates without cutting. Nothing better made for this purpose. Price, \$1.00; postpaid, \$1.10.



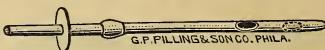
HARD RUBBER TEAT PLUG

Especially designed for two purposes: First, to prevent dropping of milk

in cows where there is relaxation of the little muscles at the end of the teat and consequent leakage of milk; and, secondly, to dilate the canal of the teat above the muscle in cases where hard milking is due to the contraction of this part of the canal. Price, 50c; postpaid, 55c.



MILKING TUBE—Plain, plated 3 inches. Price, 50c; postpaid, 55c; 4 inches, price, 60c; postpaid, 65c.



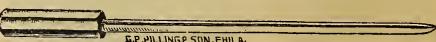
MILKING TUBE—Self-retaining; 3 inches, plated. Price, 60c; postpaid, 65c. 4 inches, 75c; postpaid, 80c.



TEAT EXPANDERS—Of metal, nickel-plated, is intended to expand and enlarge the opening of hard-milking teats. Also at the same time, it expands the milk canal; it is considered the best method of treating hard milkers. Easy to use. Price, 50c; postpaid, 55c.



LEAD PROBE—For enlarging opening in the cow's teats. 25c; postpaid, 30c.



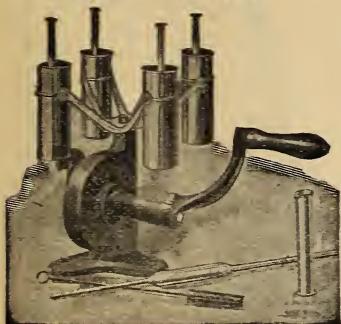
The Pilling Teat Opener is simply used as a reamer or dilator to pass the obstruction. It does not cut the obstruction. It is highly recommended by veterinary surgeons, dairymen and stock breeders, who have successfully used it for years. Price, 75c; postpaid, 80c.



MILK FEVER OUTFIT—Is made according to specifications described in Farmers' Bulletin, 45, issued by the Bureau of Animal Industry, U. S. Department of Agriculture, except we do not use the rubber bulb, which so easily rots; but in its place we furnish, without extra charge, our patented Metal Pumps, which will last a lifetime.

Milk Fever Outfit, Metal Pump and Regulator Tube, \$3.50; postpaid, \$3.60.

MILK TESTER

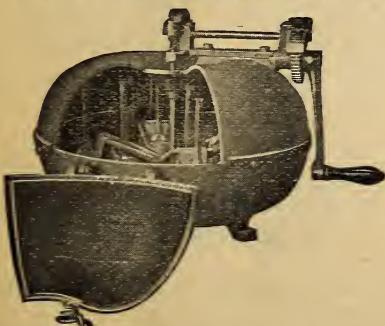


Many thousands of "Official" testers have been sold. It is used by dairymen, farmers, in hotels, restaurants and laboratories. It does accurate work, and with the instructions furnished anyone can make a perfect test. The most convenient and accurate of any low priced hand tester ever offered.

Made in two and four bottle sizes. Each tester includes a full set of bottles, pipette, acid measure, test bottle brush and full directions for making tests.

	Price	Weight
No. 1—4-bottle, milk only	\$8.00	16
No. 2 4-bottle, milk and cream	8.75	18
Order by number. Add postage.		

20th Century Milk Tester



This is an especially fine hand tester, and is built for dairies which are without the steam apparatus necessary to run a turbine tester. A speed of from 900 to 1,000 revolutions per minute can easily be obtained. All gears are enclosed and at the top of the machine; are milled in special milling machine; are absolutely accurate and therefore noiseless. The bottles are perfectly enclosed, doing away with danger from flying glass, acid, etc., should one of the bottles break. No glassware included, eight bottles. Price, \$22.50.

Acid Dippers

17.5 C. C.—Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.75.
8.8 C. C.—Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.75.

Acid Measure

17.5 C. C.—Each, 25c; $\frac{1}{2}$ doz., \$1.25; doz., \$2.00.
8.8 C. C.—Each, 25c; $\frac{1}{2}$ doz., \$1.25; doz., \$2.00.

Pipettes, Plain

17.6 C. C.—Each 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.50.

Test Bottles

Cream, 6-inch, 9-gram, graduated to 50%.
Cream, 9-inch, 9-gram, graduated to 50%.
Milk, 6-inch, 18-gram, graduated to 8%.
The above three test bottles. Each, 50c; $\frac{1}{2}$ doz., \$2.50; doz., \$4.50.
Skim Milk—Each, \$1.00.
We do not guarantee safe delivery of glass-ware.

Strainer Cloths

ABSORBENT COTTON—An approved cotton for filtering milk, prepared in rolls, neatly wrapped and sealed. One 1-lb. roll, \$1.00; add postage.

RED CROSS FILTER CLOTH—Is a specially woven cloth with the nap raised and is intended to take the place of ordinary cotton and strainer cloth, as it combines in itself the qualities of both. It is especially commended for use in filter vats and can strainers. 1-lb. rolls, 17 in. wide by 20 feet long, each, \$1.50; add postage.

Squares, 7x7 inches, packed 50 in box. Price, \$1.50. Weight, 2 lbs. Add postage.



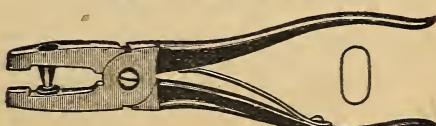
FILTER PADS OR COTTON DISCS
Put up in cartons containing 300. Not less than carton sold. Price, \$2.25. Weight 2 lbs. Add Postage.

Parchment Butter Wrappers

8x11—Plain.....100, 25c; 500, \$1.15; 1000, \$2.00
Printing name and address additional: 500, \$2.25; 1,000, \$3.00; 1,500, \$3.25. Not less than 500 printed.

Weight, per thousand, 7 lbs.; add postage.

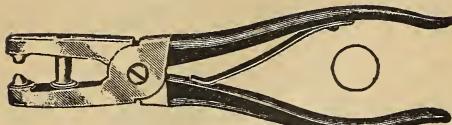
PUNCHES Ear Label Punch



This punch is made for inserting the labels only. It is necessary to cut hole in ear and also to seal labels.

Sheep size. Price, \$1.50; postpaid, \$1.60.
Cattle size. Price, \$1.75; postpaid, \$1.85.

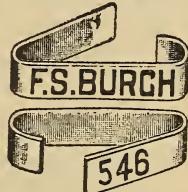
Combined Punch and Plier



This combined punch and pliers are especially made for adjusting the buttons. The cutter makes the necessary hole, and the nipples seal the button.

Each, \$1.50; postpaid, \$1.60.

Ear Tags



Sheep and
Hogs. Cattle.

25 name and number	\$1.00	\$1.10
50 name and number	1.50	1.75
100 name and number	2.00	2.50
500 name and number	8.50	11.00
25 name only or number only	.90	1.00
50 name only or number only	1.25	1.50
100 name only or number only	1.50	1.75
500 name only or number only	6.25	8.50

Name can be put on the one side, numbers on the other. Not more than 10 large size letters can be put on hog or sheep sizes, or 15 on cattle. Mailing weight, 100 sheep size, 1 lb.; 100 cattle, 3 lbs. Add 5c per 100 or less number for postage.

Ideal Ear Buttons

Are made of pure hardened aluminum, consisting of two parts or sleeves, thus giving an absolute seal that will not become loose. Name and number can be put on without additional cost.

25, \$1.50; 50, \$2.00; 100, \$3.50; 500, \$15.25.

Add 5c per 100 or less number for postage.



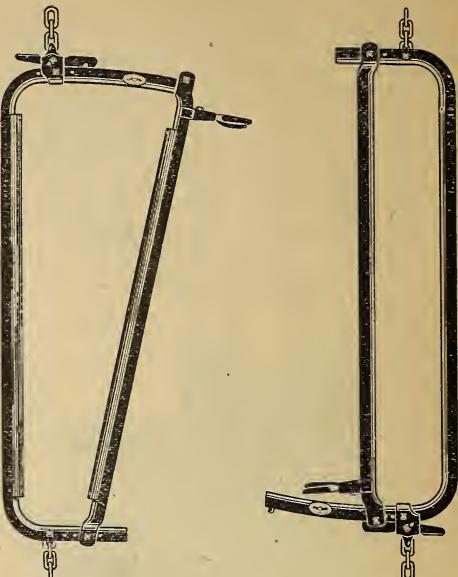
Bull Staff

Constructed of 1 1/16-inch extra heavy steel pipe with malleable lock hook. Can be operated from two places.

To hook the nose ring into the staff, pull on the slide ring near the head of staff, which will open rock bolt. To release staff from ring, pull on the snap ring in handle of staff. Latch bolt held in place by strong spring. Length 4 feet 9 inches. Weight, 8 lbs. Price, \$4.50. Add postage.

Milk Stools

No. 96W has reinforced wood top, while No. 96S has pressed steel top. Very comfortable and will not tip. Price, \$1.25. Weight, 4 lbs. Add postage.



No. 757W

No. 757W—Frame of 1 1/4x1 1/4x3/16 in. "U" steel. All pressed steel fittings. Combination gravity and spring lock. Adjustable from a five inch to an eight inch neck space. Length of fork adjustable. Hard maple woodlinings. Weight 22 pounds. Price, \$3.50.

No. 757—This stanchion is exactly the same as the No. 757-W, shown at the left except that it is not woodlined. Its neck space is adjustable from six to nine inches. Gray enamel finish. Weight 21 pounds. Price, \$3.00.

SUPERIOR STANCHIONS AND WHY

The neck space can easily be adjusted in a half-minute.

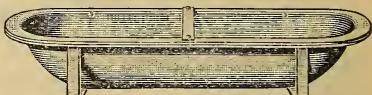
The locks are cow-proof, easy working, and dependable.

The frames are self-contained—with no draw bars to bind or open arms to bend.

The stanchions are well balanced and will always hang straight.

All materials used in these stanchions—steel, malleable, chains, and woodlinings—are the best obtainable for the purpose.

Seamless Hog Trough



The most durable, rigid, non-upsetting trough; pressed from a single sheet No. 22 gauge steel heavily galvanized.

No seams to rust, no corners to accumulate dirt, with smooth round easily cleaned bottom.

This trough will permit contents to freeze without springing a leak, as is common with seamed or jointed troughs.

Legs snap in place; are rigid and have four holes for securely fastening to the floor if desired.

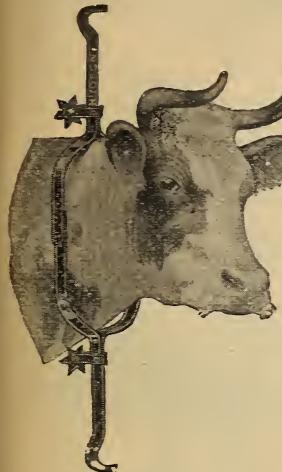
Length over all 26 inches. Inside 24 inches. Width over all 12 inches, inside 10 inches. Depth over all 5 inches, inside 4 1/4 inches. Holds three gallons.

Price, \$1.50. Weight, 6 lbs. Add postage.

Barn or Walk Scraper

This scraper can be used for cleaning barn floors, alleys and gutters, also for removing snow from sidewalks. Blade is made from high carbon shovel steel. Handle socket and side braces of pressed steel, handles of well seasoned, selected second growth ash.

No. 15—15-inch \$1.75
No. 22—22-inch 2.00



Cow Pokes

The special grade of band steel used has a rounded edge and makes a very strong yet light poke. Pokes do not interfere with the animal when feeding, grazing, drinking or lying down and will not chafe the neck.

The Fence Guards or Forks are very strong and long enough to properly engage in any kind of fence, including poles or bars. The width is $6\frac{1}{2}$ in., which is the standard width used by the stanchion manufacturers to day. They are 33 in. long. The strands in a number of barbed wire fences are 30

in. apart and pokes are long enough to prevent the animal from going through such a fence.

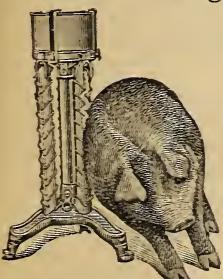
Price, 75c. Weight 3 lbs. Add postage.

Hog Oiler

Rowe's "New Idea" Hog Oiler is the only one that has no valves or other receptacles in which dirt might collect and interfere with the operation of the Oiler. There is absolutely nothing about it to leak or get out of order.

The Rowe Oiler can't clog or waste oil because it has no valves, no heavy rolling cylinder to stick, and if a hog lies down against the bar he lifts the spoon just once, gets only one small application of oil and doesn't cause all the oil to run out of the tank, as is the case where oilers depend on the opening and closing of valves.

Another point worth considering is that your hogs can rub against the Rowe "New Idea" Hog Oiler when covered with heavy mud and they can't clog the oiler. Price, \$8.50.



Stock Feed

The quotation made on stock feed are present market values. These are all subject to change. All feeds will be shipped at prices prevailing when goods are shipped. Write for prices in quantities.

Oil Meal

The advantages of feeding Oil Meal are well known.

Oil Meal \$3.50

Write for prices, stating amount wanted. Prices subject to change.

Digestor Tankage

Every well informed feeder knows that corn and other home grown feeding stuffs lacks protein and phosphates.

Brood sows must have plenty of protein and phosphates in their rations, otherwise they will farrow weak, puny pigs, defective in bone and muscle.

Price, 100 lbs., \$4.50; 500 lbs., \$22.00; $\frac{1}{2}$ ton, \$43.00; ton, \$85.00.



From practical tests it has been fully demonstrated that as good calves can be raised on Ryde's Cream Calf Meal as can be raised on milk, and by using Ryde's Cream Calf Meal they can be raised much cheaper. This is one of the richest and best substitutes for milk on the market, as it contains everything needed to make calves grow and keep them healthy, as the ingredients are prepared in the most digestible forms. It is easy to use and has proved to be the most profitable feed to use in the rearing of calves. 100 pounds makes 100 gallons perfect milk substitute. 25-lb. bag, \$1.75; 50-lb. bag, \$3.25; 100-lb. bag, \$6.00. Add postage.

STOCK REMEDIES

Conkey's

FLY KNOCKER—All the time your stock is pestered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide; odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grubs. Qt., 80c; 2 qts., \$1.35; gal., \$2.00. Not mailable.



Kow Kare

Is different from any other cow remedy. Is specially recommended for barrenness, Scours, milk fever, also for abortion and the removal of retained afterbirth, etc. It acts as a tonic for the system, renewing vitality and restoring appetite. It thus increases milk production by promoting better health and vigor. Per can, 65c and \$1.25. Mailing weight, 2 and 4 lbs. Add postage.

Bag Balm

A soothing penetrating salve for all afflictions of the bag. Price, 60c. Weight, 1 lb. Add postage.

Garget Cure

This is undoubtedly the best article on the market for the purpose for which it is used. Price, 65c. Weight, 2 lbs. Add postage.



B-K is a very powerful disinfectant but not a poison. It is much stronger than coal tar disinfectants. It is cheaper to use than other disinfectants because of its great strength and the amount of dilution that can be used. It is odorless and colorless. Very largely used in stables and by our large dairies and creameries. Also by hotels, restaurants, etc. 4-oz. bottle, 35c; 10-oz. bottle, 60c; 32-oz. bottle, \$1.25; 1 gal., \$3.00; 5 gallons, \$12.50. Not mailable.

Wyandotte



This is the great cleaner and cleanser used by nearly all dairymen and creameries. This is specially prepared for the purpose for which it is used, and the best recommendation it has comes from those who have used it and compared results obtained from the use of this and other similar preparations. It is conceded to be the best preparation of its kind manufactured. 5-lb. bag, 50c; 80-lb. kegs, \$5.75; 280-lb. barrels, \$18.00.

Alkali Special, 300 lbs., \$21.50.
Add postage on the 5-lb. bags.
Prices subject to change.

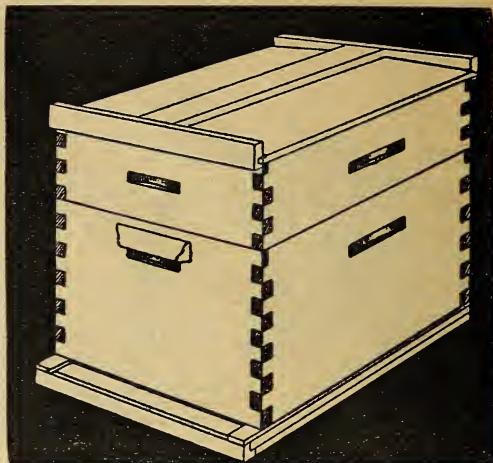
Bee Supplies

DOVETAILED HIVES—The dovetailed hive is now the leading hive, as it contains many of the most desirable features of the various hives for the rapid handling of bees, and is one of the cheapest and best hives manufactured.

DESCRIPTION—The body is $\frac{3}{8}$ inch thick, and is fitted with metal rivets of an improved style. Outside of body is $13\frac{3}{4}$ x 20 inches, and $9\frac{1}{2}$ inches long. The body holds eight Hoffman frames, L size, and a division board. The frames hang below the top edge of the hive, so that there is a bee space above them, but the bottoms of the frames are flush with the bottom edges of hives, the bee space being made by the projection of the sides and can be enlarged or decreased by investing bottom board. The bottom is $14\frac{21}{32}$ inches. The cover is made with grooved cleats at each end to prevent warping. The supers are the same size as the body of hive, but only half the depth, so that when two are put together they make a full-depth body. The inside width of the body is $12\frac{1}{2}$ inches, giving room for eight frames and a division board.

There are objections to using sections other than $4\frac{1}{2}$ x $4\frac{1}{2}$, as they require special sized shipping cases and special sized cartons.

Complete hive consists of 1 body, 1 super, 1 bottom board, 1 cover, 8 Hoffman brood frames, 2 wedges for super, 6 section holders, 6 slotted separators.



EIGHT-FRAME HIVE

	Nailed	5-K. D.	Wt.	Nailed	5-K. D.	Wt.
1 Story	\$2.85	\$12.25	25	115		
1½ Story	4.00	17.50	31	150		
Bodies Empty	.85	3.75	9	40		
Hive Covers	.85	3.75	9	40		
Bottom Boards	.85	3.75	8	35		

No division boards in hives. Add postage.

TEN-FRAME HIVE

	Nailed	5-K. D.	Wt.	Nailed	5-K. D.	Wt.
1 Story	\$3.25	\$13.75	32	150		
1½ Story	4.50	20.50	42	200		
Bodies Empty	.95	4.10	12	55		
Hive Covers	.95	4.10	12	55		
Bottom Boards	.95	4.10	9	50		

No division boards in hives. Add postage.

SUPER-EIGHT FRAME HIVE

	Nailed	5-K. D.	Wt.	Nailed	5-K. D.	Wt.
Super Comb Honey	\$1.15	\$5.00	9	40		
Super Extracting	1.15	5.25	10	45		
Super Empty						
Comb Honey	.55	2.25	9	40		

SUPER-TEN FRAME HIVE

	Nailed	5-K. D.	Wt.	Nailed	5-K. D.	Wt.
Super Comb Honey	\$1.20	\$5.25	11	50		
Super Extracting	1.30	5.50	11	50		
Super Empty						
Comb Honey	.65	2.75	6	25		

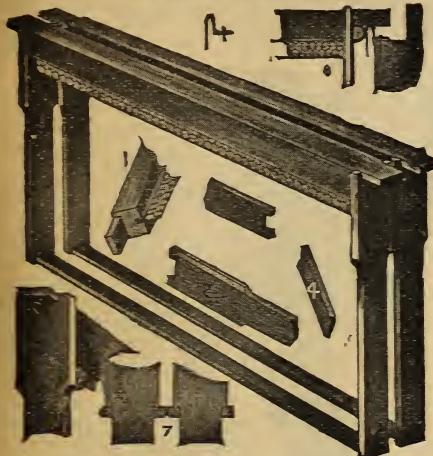
No division boards in Supers. Add postage on all bee supplies.

BEE HIVE EXTRAS

Division Boards for Brood	Each	50	100
Chamber	15c	\$6.75	\$13.00
Weight, each, 1 lb. Add postage.			
Division Boards for Deep Supers	15c	\$6.00	\$11.50
Weight, each, 1 lb. Add postage.			

Section Holders, slotted.....	6c	\$2.50	\$4.50
Weight, 100, 35 lbs. Add postage.			
Slotted Separators.....	4c	\$1.25	\$2.00
Weight, 100, 8 lbs. Add postage.			
Super Followers.....	10c	\$3.00	\$5.50
Super Springs.....	3c	.75	1.25
Spring Steel Hive Tool.....	60c	postpaid	.70

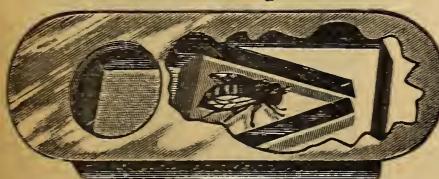
Brood Frames



The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames. The top bar is made with a beveled strip which holds the foundation in place, perfectly straight and exactly in center to top bar. It seems to combine in itself nearly all the good features and for a hanging frame it is the best self-spacer we know of. It economizes labor in that it can be handled in groups of three or four; and any particular frame can be removed without thumbing over nearly all the other frames in the hive to get room. Price, each, 8c; 50, \$3.00; 100, \$5.50. Weight, per 100, 55 lbs. Add postage.

Shallow Extracting Frames: Price, each, 8c; 50, \$2.75; 100, \$5.00. Weight of 100, 28 lbs. Add postage. Metal Spacers only, 100, \$1.25.

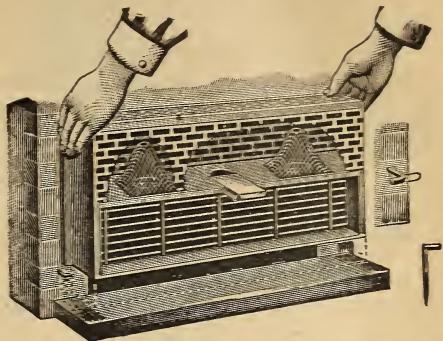
Bee Escapes



Porter

No apiarist can afford to be without bee-escapes. In taking off honey it is the greatest labor saving device that has been introduced in late years. It avoids shaking heavy spurs to get the bees out. Single, 25c; single, with board, 65c; double, 35c; double with board, 75c. Add 5c for postage. When ordering state if wanted for a 8 or 10 frame hive.

Alley's Combined Drone and Queen Trap



A perfect non-swarming arrangement. Weight 1 lb. Each, 8 frame, \$1.00; 10 frame, \$1.10; add postage.

Brushes



Cogshalls

BRISTLE—This is a strong, durable brush, made of black bristles. Price, 50c; postpaid, 55c.

COGSHALLS—This is a sort of whisk broom especially adapted and made for brushing bees. The strands are thinned out and longer, so as to give a soft pliable sweep to the combs. 30c; postpaid, 35c.

Comb Foundation

Size of Sheet.	No.	Per to lb.	Per 5-lb.	Per 10-lb.
Medium Brood, 7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	7	\$0.75	\$3.65	\$7.00
Light Brood, 7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	9	.80	3.90	7.50
Thin Super, 3 $\frac{3}{4}$ x 15 $\frac{1}{2}$	23	.90	4.35	8.50
Ext. Thin Super, 3 $\frac{3}{4}$ x 15 $\frac{1}{2}$	39	.95	4.65	9.00

Add postage.

Extractors

Cowan's Rapid Reversible Honey Extractor.



Two-frame Cowan's Reversible for Regulating Frames. Price, \$37.50.

If there is any one thing that is more essential to the successful manipulation of bees, aside from a good bee smoker, that one thing is a good honey extractor. If you have but ten colonies of bees it will pay you to have an extractor. Indeed, it would pay for itself in one good season, as oftentimes the brood combs become so filled with honey that the queen is crowded for room, and this honey should be extracted, and could be sold in the extracted form or used in feeding back for completing partly filled sections. Made of best steel.

Gloves



Gloves for protection of the hands and wrists are almost indispensable.

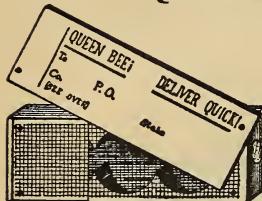
Canvas with sleeves, medium and large, \$1.25; postpaid, \$1.35.

Honey Knife



Price, \$1.50; postpaid, \$1.60.

Queen Cages



The cover, to insure prompt delivery, is printed in exact fac simile of cut. On the reverse side are printed directions for introducing Queens, Benton, 15c each.

Queen Excluding Zincs

This is used between the upper and lower stories, to prevent the queen going up above. It is also used in making entrance guards, queen and drone traps, etc.

For 8-frame hive, unbound, 12x19, 50c.

For 8-frame hive, wooden bound, 13 $\frac{3}{4}$ x20, 60c.

For 10-frame hive, unbound, 14x19, 55c.

For 10-frame hive, wooden bound, 16x20, 65c.

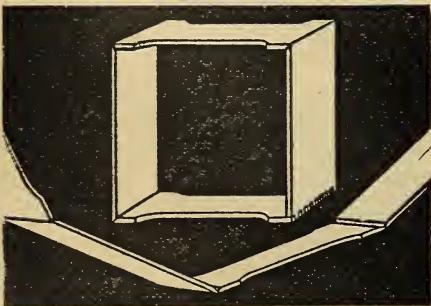
8-frame, 7-wire-and-wood, 13 $\frac{3}{4}$ x20. Price, 90c.

10-frame, 7 wire-and-wood, 16 $\frac{1}{4}$ x20. Price, \$1.00.

Add 10c each for postage.

Owing to the uncertainty of the price of zinc, prices quoted for all items which include zinc in their make-up are not guaranteed and items will only be sent out at prices prevailing when order is filled.

Section Honey Boxes



SECTIONS—Are made of the choicest white basswood lumber, and all are perfect in finish and free from defects. They are not all snow-white, but vary from that to light cream colors. Price, per 25, 50c; 100, \$1.75; 500, \$7.50; 1000, \$14.00. Weight 100, 6 lbs. Add postage.

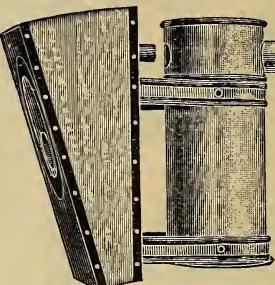
Bee Books

The Amateur Bee Keeper, by Prof. J. W. Rouse, 80 pages, 50c; postpaid, 55c.

The A B C and X Y Z of Bee Culture, by A. I. Root, \$3.00; postpaid, \$3.10.

Smokers

Every bee keeper needs a smoker. A little smoke puffed in at the entrance of a hive before opening it causes the bees to fill themselves with honey, and with their honey sacs well filled they become docile and their hive can be opened without much risk of the manipulator being stung.



Acme.

Acme—This is undoubtedly the best Cold Blast Smoker on the market. It has no tube in the fire box to clog. It throws a large volume of smoke at RIGHT angles to the fire box without a curved nozzle to lessen the blast. In fact, it is the perfection of smokers.

Price, \$1.00.
Weight, 2 lbs.
Add postage.



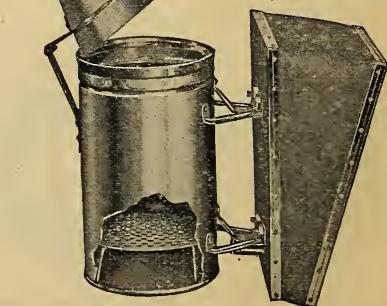
Higginsville

This smoker is, as its name implies, strictly a Higginsville product. It is a hot blast, and has a 3 $\frac{1}{4}$ -inch fire box, and the nozzle is detachable to admit of filling or cleaning. It has as strong a blast as any smoker made.

Price, \$1.25. Weight, 2 lbs. Add postage.

NEW BINGHAM BEE SMOKER

Patented



BINGHAM DOCTOR—This is a strong, well-made smoker; does not clog up and will burn any fuel. This smoker resembles the Higginsville very much in appearance. In the Higginsville the nozzle or detachable snout fits over the outside of the smoker while in the Bing-

ham it fits on the inside. In the Higginsville the nozzle is not attached to the smoker, while in the Bingham the nozzle is attached by means of an open hinge, but can be removed at will.

Price, \$1.50. Weight, 2 lbs.; add postage.

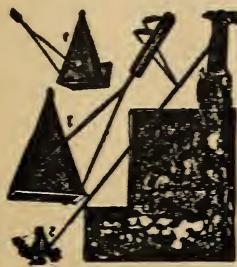
Veils

A great necessity and very cheap. Cotton; silk face, \$1.25; postpaid, \$1.30.

Globe—Has five bars that will keep veil away from head. Price, \$1.60; postpaid, \$1.65.



Swarm Catcher



This swarm catcher is the best article of its kind on the market, and it will be found a valuable addition to the appliances of the apiary. Without pole. Price, \$2.50. Weight, 3 lbs.; add postage.

Wire Imbedder



The latest spur wire imbedder is a most decided improvement over the old one. The teeth are wider and grooved in the direction of the circumference midway across front of teeth, so that the wheel will easily follow the wire. 50c; by mail, 55c.

Wire

No. 30 Tinned Wire seems to be the most suitable of any for wiring frames.

1/4-lb. spools, each, 25c.

1/2-lb. spools, each, 40c.

1-lb. spools, each, 65c.

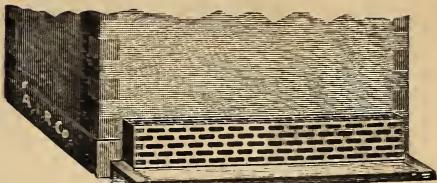
Postpaid, 30c, 45c, 75c.

Add postage.

NUMBER OF PLANTS TO ACRE

Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants
12x 1 in.	522,270	25x18 in.	15,520	36x36 in.	4,840	60x60 in.	1,745
12x 3 in.	174,240	30x 1 in.	209,058	42x12 in.	12,446	8x 1 ft.	5,445
12x12 in.	43,560	30x 6 in.	34,848	42x24 in.	6,223	2x 3 ft.	1,815
16x 1 in.	382,040	30x12 in.	17,424	42x36 in.	4,148	8x 8 ft.	630
18x 1 in.	348,430	30x16 in.	13,068	48x12 in.	10,890	10x 1 ft.	4,336
18x 3 in.	116,160	30x20 in.	10,454	48x18 in.	7,790	10x 6 ft.	726
18x12 in.	29,040	30x24 in.	8,712	48x24 in.	5,445	10x10 ft.	435
18x18 in.	19,360	30x30 in.	6,970	48x30 in.	4,356	12x 1 ft.	3,630
20x 1 in.	313,635	36x 3 in.	53,080	48x36 in.	3,630	12x 5 ft.	736
20x20 in.	15,631	36x12 in.	14,520	48x48 in.	2,723	12x12 ft.	302
24x24 in.	10,890	36x18 in.	9,680	60x36 in.	2,901	16x 1 ft.	2,722
24x 1 in.	261,360	36x24 in.	7,260	60x48 in.	2,173	16x16 ft.	170

Entrance Guards



These are to admit workers, and to exclude drones. After the drones are all out, fix guards over the entrance and at night the drones can be destroyed. For 8 and 10 frame hives. 30c; by mail, 35c.

Foundation Fasteners



Parkers

The Parker Fastener is a cheap machine for fastening starters. With a little practice it can be made to work very satisfactorily. Price, 50c; postpaid, 60c.

Wax Tube Fastener



Van Deusen

For fastening the foundation sheets to thin top-bars there is nothing better than the Van Deusen wax tubes. It is simply a brass tube half an inch in diameter, six inches long and tapering. This is filled with hot wax and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. 50c; by mail, 55c.

Feeding

Bees are fed for two purposes: to stimulate brood-rearing or to supply them with necessary stores for winter. For stimulating a pint to a pint and a half of syrup daily either at the entrance at night or inside the hive should be given until the required amount of brood is reared. In preparing for winter it is better to give the necessary stores all at one feed. The feeder should be filled with syrup by mixing together granulated sugar and water in equal proportions by measure and stirring or heating until thoroughly dissolved.

Simplicity

The Simplicity may be placed at the entrance at night, over the brood frames, by placing on top of the hive or in the brood-nest itself, if a couple of frames are removed. 25c; by mail, 30c.

QUANTITY OF SEED TO ACRE

Alfalfa	8 to 15 lbs.	Grass—Rye, Oat Grass, Fescue Grasses	30 lbs.
Artichoke, 1 oz. to 500 plants	6 oz.	Grass—Orchard	20 to 30 lbs.
Asparagus, 1 oz. to 500 plants	1 lb.	Horse Radish Roots	15,000 to 20,000
Barley	60 to 75 lbs.	Kale, 1 oz. to 150 feet of drill	1 lb.
Beans, Dwarf, 1 lb. to 100 feet of drill	50 lbs.	Kale, thousand headed	1 lb.
Beans, Tall, 1 lb. to 150 hills	25 lbs.	Khol Rabi, 1 oz. to 150 feet of drill	2 lbs.
Beet, garden, 1 oz. to 50 feet of drill	5 lbs.	Kaffir Corn	6 to 8 lbs.
Beet, sugar, 1 oz. to 50 feet of drill	5 lbs.	Leek, 1 oz. to 100 feet of drill	4 lbs.
Beet, Mangold Wurzel, 1 oz. 50 ft. drill	5 lbs.	Lettuce, 1 oz. to 150 feet of drill	3 lbs.
Broccoli, 1 oz. to 2,000 plants	4 oz.	Melon, Musk, 1 oz. to 60 hills	2 to 3 lbs.
Brussels Sprouts, 1 oz. to 2,000 plants	4 oz.	Melon, Water, 1 oz. to 30 hills	3 to 4 lbs.
Broom Corn	12 lbs.	Millet	30 lbs.
Buckwheat	45 lbs.	Nasturtium, 1 oz. to 50 feet of drill	15 lbs.
Cabbage, 1 oz. to 1,500 plants	½ lb.	Oats	75 lbs.
Carrot, 1 oz. to 125 feet of drill	3 lbs.	Okra, 1 oz. to 100 feet of drill	8 lbs.
Cauliflower, 1 oz. to 2,000 plants	3 oz.	Onions, 1 oz. to 100 feet of drill	4 to 8 lbs.
Celery, 1 oz. to 5,000 plants	1 lb.	Onions, for sets	30 to 40 lbs.
Chicory, 1 oz. to 100 feet of drill	4 lbs.	Onion Sets, 1 lb. to 75 feet of drill	400 lbs.
Clover, Alsike	6 to 15 lbs.	Parsley, 1 oz. to 300 feet of drill	3 lbs.
Clover, White	6 to 10 lbs.	Parsnips, 1 oz. to 200 feet of drill	6 lbs.
Clover, White, for lawns	25 to 100 lbs.	Peas, Garden, 1 lb. to 50 feet of drill	60 lbs.
Clover, Red and Crimson	12 to 20 lbs.	Peas, Field	150 lbs.
Clover, sweet, hulled	15 lbs.	Pepper, 1 oz. to 100 plants	
Collards, 1 oz. to 2,000 plants	4 oz.	Potatoes	400 to 600 lbs.
Corn, Sweet, 1 lb. to 200 hills	8 to 12 lbs.	Pumpkin, 1 oz. to 30 hills	3 to 4 lbs.
Corn, field	8 to 12 lbs.	Radish, 1 oz. to 100 feet of drill	10 lbs.
Corn, fodder	8 to 20 lbs.	Rape, Dwarf Essex	5 to 10 lbs.
Corn, Pop	8 to 12 lbs.	Rutabagas, 1 oz. to 150 feet of drill	2 lbs.
Cress, 1 lb. to 100 feet of drill	1 lb.	Rye	60 to 80 lbs.
Cucumber, 1 oz. to 60 hills	2 to 3 lbs.	Salsify, 1 oz. to 50 feet of drill	8 lbs.
Egg Plant, 1 oz. to 2,000 plants	4 oz.	Spinach, 1 oz. to 100 feet of drill	8 lbs.
Endive, 1 oz. to 100 feet of drill	4 oz.	Squash, Summer, 1 oz. to 25 hills	3 lbs.
Flax, for seed, 30 lbs. to acre; for fibre	50 lbs.	Squash, Winter, 1 oz. to 12 hills	4 lbs.
Grass, Brome	25 lbs.	Sugar Cane	10 lbs.
Grass, lawn, 1 lb. to 300 sq. ft.	80 lbs.	Sunflower	8 lbs.
Grass, Kentucky Blue, Canadian Blue	20 lbs.	Tomato, 1 oz. to 2,000 plants	4 oz.
Grass, Sudan	10 lbs.	Turnip, 1 oz. to 150 feet of drill	2 lbs.
Grass—Timothy	6 to 12 lbs.	Vetches, Spring	60 to 90 lbs.
Grass—Red Top	10 to 15 lbs.	Vetches, Winter	30 to 60 lbs.
		Wheat	60 to 80 lbs.

WEIGHT OF SEED PER BUSHEL

Clovers.		Barley, Hulled	60	Red Top, Hulled	36	Liberty	50
Alfalfa	60	Corn, Ear	70	Rye, English	25	Siberian	50
Alsike	60	Corn, Shelled	56	Rye, Italian	22	White Wonder	50
Crimson	60	Oats	32	Sudan	22	Miscellaneous:	
Red	60	Rye	56	Tall Meadow Oat	14	Buckwheat	50-48
Sweet, Hulled	60	Wheat	60	Timothy	45	Flax	56
Sweet, Unhulled	40	Grasses:		Millets:		Peas, Smooth	60
White	60	Blue	14	Hog	50	Peas, Wrinkled	56
Grains:		Brome	14	Hungarian	48	Onion Sets, Bot-	
Barley	48	Orchard	14	Japanese	40	toms	32

USUAL DISTANCE FOR PLANTING

Bushes:		Roots:		Onions, drills, 2 to 3 ft.
Blackberries, 8x4 ft.		Asparagus, 2x3 ft.		Parsnips, drills, 2 to 3 ft.
" Mammoth, 8x12 ft.		Potatoes, 18 in. by 3 ft.		Peas, drills, 2 to 3 ft.
Currants, 5x3 ft.		Rhubarb, 3x4 ft.		Peas, broadcast, acre, 150 lbs.
Dewberries, 8x4 ft.		Sweet Potatoes, 2x4 ft.		Pumpkins, 8x8 ft.
Gooseberries, 5x3 ft.		Seeds:		Radishes, drills, 1 to 2 ft.
Raspberries, 7x3 ft.		Beans, bush, drills, 3 ft.		Salsify, drills, 1 to 2 ft.
Plants:		Beans, pole, 3x3 ft.		Spinach, drills, 1 to 2 ft.
Cabbage, Early, 16x30 in.		Beets, table, drills, 2x2½ ft.		Squash, bush, 3x4 ft.
Cabbage, late, 24x30 in.		Beets, stock, drills, 2x3 ft.		Squash, running, 8x8 ft.
Cauliflower, 2x3 ft.		Carrots, drills, 2x2½ ft.		Trees:
Celery, 6 in. by 4 ft.		Corn, sweet, 2x3 ft.		Apple, 30x30 ft.
Egg Plant, 3x5 ft.		Corn, field, 3x3 ft.		Cherry, 20x20 ft.
Peppers, 18 in. by 2½ ft.		Cucumbers, 4x4 ft.		Peach, 20x20 ft.
Tomatoes, 4x4 ft.		Lettuce, drills, 1x2 ft.		Pear, 20x20 ft.
Strawberries, hills, 1½x3 ft.		Melon, Musk, 5x5 ft.		Plum, 20x20 ft.
" matted rows, 1x3 ft.		Melon, Water, 7x7 ft.		Quince, 20x20 ft.

ORDER BLANK
THE INLAND SEED CO. SPOKANE
WASH.

No Goods Sent C. O. D. For Full Instructions About Ordering, See Inside Front Cover.

THE INLAND SEED CO. gives no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, bulbs, plants or roots they send out, and they will not be in any way responsible for the crop.

Forwarded by _____ P. O. Money Order \$ _____
(State on this line whether wanted by Mail, Express or Freight.)

Your Name..... Exp. Money Order \$.....

Postoffice..... Notes and Silver \$.

State _____ **Postage Stamps \$** _____

Total . . . \$.....

Express or
Freight Office..... Date....., 19.....

In making your order, please give the price, to avoid delay and error.

Lot No.	Pounds	Ounces	packets	SEEDS, POULTRY SUPPLIES, ETC.	PRICE Dollars	Cents
Amount Brought Forward						
					Total	

If you will fill in the spaces with the names and addresses of ten of your neighbors who buy Seeds, Plants, Bee or Poultry Supplies, Fertilizers, Sprays or Spray Pumps, you may with your first order of 25c or over, select free of charge any three 5c papers of seeds that we list.

NAME	ADDRESS

Page	Page	Page			
Alfalfa	54	Fish Food	110	Peanuts	20
Artichokes	1	Flax Seed	58	Peas, Cow, Field	57
Asparagus	1	Flex-o-Glass	105	Peas, Garden	20-21
Asparagus Knife	92	Flowers	27-37	Peat Moss	71-107
Bamboo Stakes	48	Formaldehyde	85	Peppers	21
Baskets, Potato	93	Fountain Heaters	103	Plants	49-50
Baskets, Hanging	93	Fruit Picking Bags	88	Plant Bands	52
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When ordering, look for the zone

the same line under your ZONE will be shown the amount of postage to be added when ordering. We have catalogued the weight of most items mailable by parcel post, and by aid of the table here shown you can always figure your postage.

SIZE AND WEIGHT

A Parcel Post package may weigh from 4 ozs. to 70 lbs. for the first, second and third zones—with a 50-pound weight limit for from fourth to eighth zones inclusive, and must not exceed in size 84 inches in length and girth combined.

General Merchandise takes 1 1/2c for each 2 oz. up to 8 oz. Above 8 oz. pound rates.

Seeds, Plants, Bulbs and Cuttings take 1c for 2 oz. up to 8 oz. Above 8 oz. pound rates.

IN BRITISH COLUMBIA AND CANADA

the rate on any parcel up to eight ounces is one cent for two ounces. All parcels over eight ounces take the pound rate, which is 14 cents per pound up to 15 pounds.

PARCEL POST RATES

	First Pound or Fraction Thereof	Each Additional Pound or Fraction
1st Zone	\$0.07	\$0.01
2nd Zone	.07	.01
3rd Zone	.08	.02
4th Zone	.08	.04
5th Zone	.09	.06
6th Zone	.10	.08
7th Zone	.12	.10
8th Zone	.13	.12



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